



EPA Region 5 Records Ctr.



350000

Emergency Response Plan Documentation Report

Former Plainwell Paper Mill Banks

Plainwell, Michigan

February 2009

RMT, Inc. | Weyerhaeuser Company
Final
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Section 1

Introduction

1.1 Background and Scope

The Plainwell Impoundment Time Critical Removal Action (Plainwell Impoundment TCRA) (BBL, 2007) was conducted in 2007/2008. This action was undertaken in response to conditions along the Kalamazoo River at the former Plainwell Impoundment that were determined to represent an imminent and substantial threat to public health and the environment (United States Environmental Protection Agency [USEPA] Enforcement Action Memorandum, dated February 14, 2007). The overall response approach and responsibilities were defined under terms of a Settlement Agreement (Administrative Settlement Agreement and Order on Consent for Removal Action Docket No. V-W-07-C-863) with members of the Kalamazoo River Study Group (KRSG) and then described in more detail in the Former Plainwell Impoundment Time-Critical Removal Action Design Report (Arcadis BBL, 2007). The Time-Critical Removal Action (TCRA) activities included dismantling a portion of the existing Plainwell Dam and relocating the flow of the Kalamazoo River to its original channel. In addition, specific areas of river bank and floodplain soils that contained deposited paper residuals were targeted for removal including areas upstream of Michigan State Highway 131. The targeted area did not include the banks adjacent to the former Plainwell Paper Mill which are also included in the Kalamazoo River Operable Unit 05 of the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site.

At the request of the City of Plainwell and in consideration of the historical identification of paper residuals along the former Plainwell Paper mill banks, Weyerhaeuser Company (Weyerhaeuser) recommended addressing the banks under the emergency action provisions of their 2005 Consent Decree. In a letter dated June 29, 2007, the USEPA authorized Weyerhaeuser to proceed under Paragraph 67 of the 2005 Consent Decree and thus prevent, abate, or minimize a release or potential release from the former Plainwell Mill banks. Specific emergency response work performed by Weyerhaeuser in addressing the threatened release was performed in a manner that considered the City of Plainwell future land use concepts and was generally consistent with applicable provisions of the Settlement Agreement and the Former Plainwell Impoundment Time-Critical Removal Action Design Report (Arcadis BBL, 2007).

The details of the Plainwell Mill Banks Emergency Response were described in the Former Plainwell Mill Banks Emergency Action Design Report (Emergency Action Design Report) (RMT, January 2008). Initiation of site preparation activities was approved by the USEPA in their letter dated October 15, 2007, and the remainder of the Mill Banks Emergency Action

Design Report was conditionally approved by the USEPA in their letter dated October 31, 2007. As described in Section 1.6, the remainder of this documentation report includes a written summary of the response activities, the results of verification sampling, and final responses completed to address the paper residuals present along the former Plainwell Mill banks.

1.2 Emergency Action Objectives

As presented in the Emergency Action Design Report, three objectives were developed for the Emergency Action along the former Plainwell Mill banks:

- Remove or contain visible paper residuals and address previously identified areas of reported polychlorinated biphenyls (PCBs) concentrations of greater than 50 mg/kg in soils/sediments along the former Plainwell Mill banks to a target concentration of either 4 mg/kg or 1 mg/kg.
- Reconstruct the river bank, as needed, to minimize future release of PCBs.
- Reconfigure banks to limit upland cutbacks into former Plainwell Mill property and place erosion controls to provide comparable stability to pre-excavation conditions.

1.3 Emergency Action Approach

In general, the former Plainwell Mill Banks Emergency Action was implemented in the following steps (any changes from this protocol will be identified in Section 2).

Step 1. Prepare and Submit Plainwell Mill Banks Emergency Action – Conceptual Design Approach (*Submitted on August 14, 2007*)

Step 2a. Prepare and Submit Emergency Action Design Report (*Submitted on September 5, 2007*)

Step 2b. Update Multi-Area QAPP and FSP (*Submitted on September 10, 2007*)

- Submit Multi-Area QAPP and FSP addenda as required for the Design Report.
- Submit an Emergency Action Health and Safety Plan.

Step 3: Conduct Site Preparation Activities (*Initiated October 19, 2007*)

- Clear and grub site to create work platform and provide access to residuals.
- Conduct follow-up identification of outfalls along the Kalamazoo River.
- Conduct pre-excavation site survey.
- Refine and implement outfall and utility management plans.
- Prepare sediment, soil, and water management areas.

Step 4: Excavate Residuals and Reconfigure Banks 1 (*Initiated November 12, 2007*)

- Work in four construction zones defined by similar bank and/or river conditions (labeled Zones A to D on Figure 2).
- Place turbidity management and water quality monitoring systems in the active construction zone.
- Excavate submerged and non-submerged paper residuals by zone and transfer residuals to the containment pad (unless pre-excavation test results contain concentrations greater than 50 mg/kg).
- Perform confirmation sampling and re-excavate or contain, if necessary.
- Reconfigure bank, as needed.
- Place erosion protection materials as defined in Section 2.
- Review Emergency Action approaches and schedule after completion of work in each zone and refine for the next zone as needed.
- Stage, stabilize, and transfer removed paper residuals to off-site disposal location.
- Treat and discharge dewatering fluids.

Step 5: Document Emergency Action

- Conduct post-excavation survey.
- Prepare Emergency Action Documentation Report.

Overall, residuals excavation on shore was considered complete when visible residuals were removed and composite sample concentrations of PCBs in the bank soils was less than 4 mg/kg. For floodplain soils/near shore sediments, excavation was complete when the original river bottom was encountered or when visible residuals were not present in the sediment samples, and the removal was confirmed when the results from composite samples collected under the excavated materials contained PCB concentrations less than 1 mg/kg. If concentrations in the soil or sediment were above criteria after two excavation passes, the areas of higher concentrations were isolated with a Geofabric and then covered by 6 inches of clean soil or stone.

1.4 Permitting Requirements

Prior to construction activities, an application was submitted to the Michigan Department of Environmental Quality (MDEQ) for a substantive requirement National Pollutant Discharge

¹ The final sequence of work was dependent upon activities in the nearby excavation zones. For example, in parts of Zone C, concentrations of PCBs in the paper residuals were determined prior to excavation. If the concentrations were greater than 50 mg/kg, then the excavated bank soils were placed in a separate dumpster and labeled.

Elimination System (NPDES) permit. The permit (MIU990026) was issued on November 15, 2007. In addition, a United States Army Corps of Engineers (USACE)/MDEQ joint construction permit was submitted with the Emergency Action Design Report. No comments were received regarding this submittal.

1.5 Residuals Excavation Documentation Sampling

Post excavation conditions were documented following the procedures described in Section 3.3 of the Design Report unless otherwise described in the sampling notes or this report. Sampling of underlying soil or sediment was performed in each construction zone to document post excavation PCB surface concentrations remaining in the Mill bank floodplain soil, bank soil, and sediments. Samples were collected in small gridded areas to confirm excavation targets had been met prior to bank reconfiguration. These initial soil and sediment confirmation samples were expedited at the laboratory to limit construction delays.

1.6 Documentation Report Organization

In addition to this introductory text, the remaining sections of the Documentation Report present the final description of the Former Plainwell Mill Banks Emergency Response followed by a series of appendices that support and further document the Emergency Action activities performed. The sections and appendices consist of the following:

- Section 2 – Construction Documentation: A description of activities performed and any changes from the Design Report.
- Section 3 – Construction Monitoring and Confirmation Sampling Results: A description of the various monitoring activities are described, including resuspension monitoring, dewatering system discharge monitoring, residuals removal confirmation sample results, residual disposal documentation, and monitoring of the erosion control system
- Section 4 – References: Identification of any references cited in this report.
- Appendix A: Relevant correspondence associated with the Plainwell Mill Emergency Action
- Appendix B: Construction field log summary and photographs
- Appendix C: Release Report Documentation
- Appendix D: Calciment bottom ash material safety data sheet (MSDS)
- Appendix E: EQ manifests
- Appendix F: Laboratory analysis
- Appendix G: Zone D Clay and Armor Description

Section 2

As-Built Construction Documentation

2.1 Site Preparation

The approved site preparation activities associated with the Emergency Action began on October 18, 2007. These tasks included the following.

2.1.1 Clearing and Grubbing

The banks and upland areas along the entire length of the former Mill property were cleared and grubbed to provide access to the removal areas. Upland areas were cleared up to 20 feet from the adjacent top of bank. Other locations were cleared to accommodate project support activities including the area for the temporary storage/office trailer, the water treatment system, material storage and fueling areas, and the equipment/vehicle parking areas. Clearing was also completed in the area of the former earthen aeration basin to facilitate construction of the residuals staging and dewatering pad (shown on Figure 2).

As part of the clearing activities, trees were cut at or near ground level and then moved to a staging area on site. Root wads with short tree trunks (if possible) were left along the bank for stability unless removal was required for residual excavation. The cut trees were chipped and removed from the site for use as fuel. Once the area was cleared of trees and other vegetation, a silt fence was installed along the entire length of the bank to filter any runoff to the Kalamazoo River. Prior to initiation of the tree clearing, Eric Wilson, City Manager of Plainwell, was contacted and had City staff identify selected trees that the City preferred to remain along the river. To the extent practicable, these trees were left in place.

2.1.2 Top of Bank Work Platform

A 15 to 20 foot wide working platform was constructed along the top of banks to allow equipment and truck access. The platform area was graded as level as possible for safe working conditions. Based on the underlying soil conditions, additional fill material was not required after grading.

2.1.3 Outfall Management

Thirteen outfalls of varying types were identified along the Kalamazoo River within the area targeted for the Plainwell Mill Banks Emergency Action. During the site

preparation activities, the presence and use of these, and any additional outfalls, was reviewed in accordance with the Design Report. Since it could not be determined, based on the lack of historical documentation, whether the process outfalls had any storm water connections, only one of the outfalls was abandoned at this time. This outfall was unidentified pipe near the Mill buildings and was in extremely poor condition. The end of the pipe was removed and covered with the clay cap and armor. Locations of all identified outfalls were established using a GPS system and are shown on Figure 3. If necessary, the management of any of the outfalls will be considered during the Remedial Investigation (RI) activities. No additional outfalls other than those identified on Figure 3 were encountered.

2.1.4 Utility Management

Other site related constraints within the construction area included overhead power lines along the river banks and possible underground telephone lines that bisect the banks near the former wastewater treatment plant. Consumers Energy was contacted regarding the utility lines and they provided verbal approval to work within the right of way with certain restrictions including maintaining a 15 foot clearance from the lines and not excavating adjacent to utility poles. (Consumers Energy, 2007). No additional restrictions were required. No unidentified underground utilities were encountered during excavation activities.

2.1.5 Residuals Containment Area

An area designated to contain the residuals from the banks was constructed between the existing access road and the river in a former overflow area as shown on Figure 2. The area was approximately 200 x 100 feet, which was graded to remove the existing topsoil layer and any construction debris down to a center depth of approximately 10 feet below surrounding surface. The overburden soil material was pushed out to form a containment berm along the edges of the containment pad. Once the area was excavated, the bottom was inspected for objects which could damage the liner system. The pad was then compacted using a vibratory roller to create a smooth base. A 40 mil low density polyethylene (LDPE) seam welded liner was then placed over the entire excavated area and the containment berms. The liner was covered with approximately 12 inches of sand to protect the liner system. The grade of the pad allowed any excess water to drain to the east end where it could safely accumulate and then be transferred to the on-site holding tank prior to being treated through the on-site water treatment system and eventually discharged to the Kalamazoo River.

2.1.6 On-Site Wastewater Treatment

A wastewater treatment system was rented from Pro-Act Services in Ludington, Michigan. The system consisted of a 20,000-gallon equalization/sedimentation holding tank, followed by bag filters and carbon adsorption columns. The multimedia filters and carbon columns were trailer-mounted and placed adjacent to the residuals containment pad.

In accordance with the Substantive Requirement Document, a NPDES permit application was submitted to the MDEQ for their files. The system is permitted to discharge up to 29,000 gallons per day at a flow rate up to 200 gallons per minute.

2.1.7 Installation of Water Quality Monitoring Equipment

As described in the Emergency Action Design Report, the design of the removal actions was developed to minimize potential adverse effects from this excavation work by placement of silt curtains around an individual work area prior to excavating. An additional safeguard was to implement a resuspension monitoring program that provided real time water quality data for use in assessing a need for operational changes that minimize any unintended secondary effects.

Two movable YSI Sonde units, each equipped with probes to measure dissolved oxygen, turbidity, pH, conductivity, and temperature were installed within the Kalamazoo River, approximately 200 feet upstream and downstream of the excavation zone. As the excavation progressed upstream, the units were also moved to keep the approximate 200-foot distances.

2.1.8 Other Project Support Areas

Project support areas consisting of a temporary storage/office trailer, material storage and fueling areas, and a portable restroom were located adjacent to the on-site potable wastewater treatment system to provide on-site support services. The existing access road was utilized for major construction traffic through the Cedar Street entrance. The gate at this entrance was locked when not being used.

2.2 Residuals Removal

As described in the Design Report, the Plainwell Mill banks were divided into four zones, Zones A to D, to delineate the different bank and river conditions along the former Plainwell Mill property (see Figure 2). Work was staged from downstream to upstream since over 70 percent of the paper residuals were estimated to be located in Zone A and with the late construction start date of November 12, 2007, all parties agreed that the majority of the

estimated volume of contaminated material along the former Plainwell Mill banks should be excavated prior to the end of the 2007 construction season.

Excavation in all four zones was accomplished using a long reach excavator positioned along the banks. Prior to removal in all areas, a silt curtain was placed around the removal area approximately 10 to 15 feet offshore of the banks to control the potential movement of sediments that became suspended in the water column due to excavation activities. The upstream and downstream ends of the silt curtain were anchored to the shore on either end of the removal area. The length, type, and configuration of the silt curtains varied based on the river flow characteristics in each zone. Silt curtains were inspected periodically during the removal action and any deficiencies were addressed immediately; details are provided later in this section.

Once excavation was completed in all zones, the surface of the temporary roads used to access the banks during the removal efforts was scraped to a depth of 6 to 12 inches to remove any potential material that may have dropped from the equipment or trucks during transport of the waste material to the containment pad. The material scraped from the temporary roads was placed in the containment pad.

2.2.1 Zone A

Removal activities in the 600-foot length of bank defined as Zone A began on November 12, 2007. Three hundred feet of silt curtain was placed along the banks enclosing the western half of Zone A. All visible residuals from the floodplain and near-shore sediment area behind the silt curtain were removed, loaded into a dump truck, and transported to the containment pad. The identifiable residuals encountered in the floodplain were approximately 1 to 3 feet thick overlaying a sand and gravel layer.

During the excavation activities, an attempt was made to place tarps along the banks to protect clean areas from material falling off the excavator bucket. Tarps large enough to cover the banks completely were too large to maneuver and secure due to wind and debris along the banks. The use of tarps was discontinued as impracticable and instead, bank areas were inspected after completion of the removal action and any areas affected by residuals during the removal activities were removed and placed in the containment pad prior to moving to the next removal area.

As described in the approved Design Report (Section 3.3) and summarized in Section 1.5 of this Documentation Report, confirmation samples were collected and analyzed following expedited turnaround times prior to moving to the next area. In Zone A, confirmation samples PM-SD-001 through PM-SD-007 were collected on November 19

and 20, 2007, and submitted to Weyerhaeuser Analytical & Testing Services (WATS) for analysis. Sample PM-SD-003 had a PCB concentration of 1.47 mg/kg, while all the other samples were below the action limit of 1 mg/kg (see Table 1 for complete results). As described in the Design Plan, approximately 2 cubic yards of additional material was removed from around PM-SD-003 and the area was resampled on November 27, 2007. The results of PM-SD-003R were below the action limit of 1 mg/kg.

Removal of all visible residuals in the western half of Zone A required excavation of the toe and a large portion of the bank slope leaving a potentially unstable bank condition (see photographic log in Appendix B). The Emergency Action Design Report called for reworking of the banks post-excavation in order to establish a slope no more prone to erosion than the original bank. In order to accomplish this, sandy clay fill was placed along the banks at a 2H:1V slope. Cutting back the banks was not an option due to the large amount of Mill property that would be lost and the presence of utility poles near the current top of bank. The bank was armored with river run rock and rip-rap placed from the toe of the new slope to 2 feet above the river water level at the time of placement.

Excavation of the eastern end of Zone A began on December 2, 2007. The silt curtain was moved to enclose the next 300 feet of bank to be excavated. All visible residuals from the floodplain and near-shore sediment area behind the silt curtain were removed, loaded into a dump truck, and placed in the containment pad. The width of the floodplain area became narrower as the excavation was moved east and correspondingly less residuals were encountered. The visible residuals encountered in the floodplain were still approximately 1 to 3 feet thick overlaying a sand and gravel layer.

Confirmation samples PM-SD-008 through PM-SD-013 were collected on December 5 and 6, 2007, and submitted to WATS for analysis. All of the samples, except PM-SD-013, had PCB concentrations below the action level of 1 mg/kg. The sample taken at PM-SD-013 had a concentration of 1.64 mg/kg. On December 12, 2007, a 10 x 10 foot area around this sample was re-excavated down to the sand and gravel river bottom prior to conclusion of excavation in Zone A. Sample PM-SD-13R was collected from the re-excavated area; PCBs were not detected in the sample. A total of 15 confirmation samples were taken in Zone A and these sample locations are shown on Figure 4.

At the completion of excavation in the eastern area of Zone A, sandy clay fill material was placed in the excavated area at a 2:1 slope to match the new banks created in the western half of Zone A. The bank was armored with river run rip-rap placed from the toe of the new slope to 2 feet above the river water level at the time of placement.

Remedial activities in Zone A ended on December 12, 2007. Approximately 2,150 cubic yards of sediment and floodplain soil were removed from the Zone A and placed in the residuals containment area, and approximately 500 tons of fill and rip-rap were used to improve the banks. Construction monitoring details are provided in Section 3.

2.2.2 Zone B

Excavation in Zone B began on December 11, 2007. Zone B contained 750 feet of shoreline characterized as having steep and heavily wooded banks with no observable floodplain areas and moderate water velocity. Given the length of shoreline in Zone B, the area was excavated in three sections due to limits in the length of the silt curtain used to control turbidity. All visible residuals from the western section of Zone B were removed, loaded in a dump truck, and placed in the containment pad. There were less residuals present and removed from the western section of Zone B when compared to the eastern section of Zone A due to continued narrowing of the floodplain zone. Excavation was completed on December 14, 2007.

Confirmation samples PM-SD-014 through PM-SD-020 were collected on December 13, 2007, and submitted to WATS for analysis. All of the seven samples had PCB concentrations below the action level of 1 mg/kg, so additional excavation was not necessary. Sandy clay fill was placed in the excavated area and armored with washed stone and rip rap prior to moving to the middle section of Zone B.

Excavation in the middle section of Zone B began on December 18, 2007. All visible residuals from this section of Zone B were removed, loaded in a dump truck, and placed in the containment pad. Deposits of residuals were removed from the near shore sediments. The residual deposit was approximately 1 foot or less thick. Excavation was completed on December 20, 2007.

Confirmation samples from the middle section of Zone B, PM-SD-021 through PM-SD-027 were collected on December 20, 2007, and submitted to WATS for analysis. Removal activities were put on hold in observance of the winter holidays from December 20, 2007, to January 2, 2008. Silt fencing remained in place, to limit any surface runoff into the river.

All of the seven confirmation samples had PCB concentrations below the action level of 1 mg/kg, so additional excavation was not necessary. On January 2, 2008, sandy clay fill was placed in the excavated middle section of Zone B and armored with washed stone and rip rap prior to moving to the last section of Zone B.

Excavation of the eastern section of Zone B began on January 4, 2008. While moving the silt curtain to this section of Zone B, RMT noted that a seam on the silt curtain had been damaged. Repairs were made to fix the damaged seam and reattach the silt curtain prior to the re-start of removal activities. All visible residuals were removed, loaded in a dump truck, and placed in the containment pad. Excavation was completed on January 5, 2008. Confirmation samples PM-SD-028 through PM-SD-034 were collected on January 5, 2008, and submitted to WATS for analysis.

During the week of January 7, 2008, water from heavy rains and snow melt filled the containment pad. ProAct personnel were called on site to verify that the water treatment system was operational. Water was pumped out of the containment pad and into the holding tank for the on-site water treatment system. Tank heaters were installed on the holding tank to prevent water freezing.

Sediment confirmation sample results were received on January 11, 2008. PCB concentrations in samples PM-SD-029 (1.01 mg/kg) and PM-SD-032 (2.36 mg/kg) were above the action limit. Thus, these two locations required additional excavation. The area around these two sample locations was re-excavated and re-sampled. After removal of an additional 3.5 to 4 cubic yards of material, the underlying sediments were resampled and the results from the re-sampling indicated levels below the action limit of 1 mg/kg.

On January 14, 2008, ProAct returned to the site and the water treatment system was started. Water was processed at 120 to 140 gallons per minutes and discharged to the Kalamazoo River. A total of 58,441 gallons were treated and discharge to the river over a 2-day period. Water treatment system monitoring was conducted and is described in detail in Section 4.

Due to the high water level of the Kalamazoo River, work was suspended from January 16 until January 28, 2008. During this time the silt curtains remained in place. On January 28, 2008, RMT returned to the site. The water level of the Kalamazoo River had subsided to allow removal to continue. Fill was placed in the eastern section of Zone B and then armored with rip-rap to complete the work in that zone. Overall, approximately 400 cubic yards of sediment and floodplain soil were removed from all three areas of Zone B and placed in the residuals containment area. Approximately 200 tons of fill and rip-rap were used to improve the banks. Twenty-three confirmation samples were taken in Zone B at the locations shown on Figure 5. Construction monitoring details are provided in Section 3.

2.2.3 Zone D

Based on increased flow and water levels in the Kalamazoo River, the excavation sequence was modified to move to the eastern end of Zone D and work to the west. Excavation in Zone D began on January 28, 2008. Zone D contained 650 feet of shoreline characterized as having lower banks with a vegetative cover of grasses and small bushes, no observable floodplain areas and moderate water velocity. Given the length of shoreline in Zone D, the area was excavated in two sections due to limits in the length of the silt curtain used to control turbidity. All visible residuals from the eastern section of Zone D were removed, loaded in a dump truck, and placed in the containment pad. Material was removed from the toe of the bank slope extending out about 3 to 4 feet into the river and to a depth of about 2 to 3 feet below the existing grade. Excavation was completed on January 30, 2008.

Confirmation samples PM-SD-035 through PM-SD-041 were collected on January 31, 2008, and submitted to WATS for analysis. The samples consisted of gray to black silt, with sand and gravel; some samples exhibited a slight petroleum odor.

On February 4, 2008, WATS informed RMT that the preliminary results from the confirmation sample in Zone D were higher than previous sample batches, but no specific concentrations were reported. Therefore, on February 5, 2008, RMT re-excavated the eastern half of Zone D. Excavation activities started in the afternoon after the crew mobilized back to the site. During the removal activities, RMT encountered concrete and other construction debris material. By mid-afternoon, this debris was penetrated and a slight oily sheen began to appear on the water surface. Excavation halted and floating oil booms were installed around the area to contain the slight oil sheen observed on the water as it entered the river from the excavation. To limit additional water contact with oily debris and soil, additional clay fill material was immediately ordered which arrived at the site at approximately 5:00 p.m. EST and was immediately sampled for characterization and submitted for analysis.

After the sample was collected, a layer of this clay fill material was then placed over the oily concrete rubble to prevent any additional release of material to the river. After placement of the clay cap, no visible sheen was observed on the water and oil booms were removed from the river at approximately 7:00 p.m. EST on February 5, 2008. The incident was reported to the National Response Center (Incident Report No. 867374) (see Appendix C).

On February 6, 2008, RMT received the actual, but unvalidated, laboratory results for the confirmation samples collected from the eastern half of Zone D. Six of the seven

samples had PCB concentrations above the 1 mg/kg action level, and one sample, PM-SD-041, had a PCB concentration of 513 mg/kg. In response to these high concentrations and to avoid contacting additional oily materials, Weyerhaeuser immediately took all appropriate action to prevent, abate, and minimize the potential for a release by placement of 1 to 1.5 feet thick layer of clay armored with rip-rap along the entire 300-foot area where residuals had been removed from the western part of Zone D. After clay placement, the silt curtain was moved to the next excavation area.

On February 7, 2008, the material suspected of containing high PCB concentrations based on PM-SD-041 was identified and segregated within the containment pad. The material was moved to lined roll-off boxes and covered. Approximately 20 cubic yards were placed in the roll-off box and covered to prevent exposure to precipitation. Based upon the high PCB concentrations found in Zone D, RMT began collecting pre-excavation samples from the remaining removal areas to better prepare for and properly manage the excavation spoils. Pre-excavation samples of the sediment to be removed were taken every 50 feet along the banks. Seven pre-excavation samples were collected from the western half of Zone D and sent to WATS for analysis of PCBs.

On February 12, 2008, RMT received the pre-excavation sample results, PEX-1 through PEX-7. The PCB concentrations in PEX-1 and PEX-2 were 288 mg/kg and 23.6 mg/kg respectively (see Figure 6). The remaining samples were all less than 1 mg/kg. Thus, only the material between PEX-4 and PEX-7 was excavated. The near-shore sediment and soil from this area was removed from the toe of the bank slope, loaded into a dump truck, and placed in the containment pad.

Since elevated PCB concentrations were identified in PEX-1 and PEX-2, a request was made to the USEPA to cover the area and thus minimize the potential for release of impacted material to the Kalamazoo River. On February 19, 2008, the USEPA approved the placement of a clay barrier layer and erosion control stone as an interim measure in the area identified on Figure 6. A copy of the approval letter is attached as a part of Appendix A.

On February 13, 2008, RMT halted excavation activities due to damage to the silt curtain. RMT collected five confirmation samples (PM-SD-042 through PM-SD-046) from the western section of removal Area D excavated the previous day. Samples were described as black sand with gravel and no odors. All five samples were split with an employee from CDM, the MDEQ's oversight contractor. In the afternoon, RMT collected seven pre-excavation samples (PEX-8 through PEX-14) from the next bank removal area, the eastern section of Zone C.

The oversight representative from CDM indicated that the MDEQ may have concerns with the sampling technique being used by RMT in the western portion of Zone D. Due to the steep banks, increased river flow and large gravel and cobbles in the river bed, RMT had collected the confirmation samples from February 13, 2008, with the assistance of the long reach excavator instead of wading in 3 feet of rapidly flowing water and sampling with Lexan tubes. The procedure was consistent with general sampling alternatives identified in the approved Multi-Area Field Sampling Plan Standard Operating Procedure F-4. A sediment sample was collected with the excavator bucket and then brought to the shore where RMT sampling personnel selected a series of subsamples from the bucket and then mixed them together in a separate stainless steel bowl to create a representative composite sample for confirmation analysis.

To address MDEQ concerns associated with sampling from the backhoe bucket, an on-site meeting was held on February 28, 2008. The USEPA, MDEQ with their contractor CDM, and RMT met at the Plainwell Mill to test various sampling techniques in the western section of Zone D. The sampling techniques tested included: direct push Lexan tubes, sediment collection with a 2.5-inch diameter hand auger and shallow sediment sampling with a petite ponar sampler. Usable samples were collected with the hand auger at each sample location. The gravelly sediments created challenges to the use of Lexan tubes since the tube was difficult to advance into the sediments and adequate sample recovery in the tube required a very tight seal to maintain the vacuum necessary to hold the sample in the tube as it was raised through the water column. Sampling success with the ponar dredge was inconsistent. Small rocks in half of the sediment sampling locations prevented the ponar from completely closing and collecting a representative sample. The outcome of the on-site meeting was that locations PM-SD-42 through PM-SD-46 would be resampled by either driving a Lexan tube or using a hand auger. These results would be compared to the samples collected with the excavator bucket. Additionally, for future sample collection, attempts would be made to collect samples with either a Lexan tube or with a hand auger before considering other sampling techniques.

During the excavation stoppage, RMT had obtained a new silt curtain and reconfigured the design for turbidity control in anticipation of the higher river velocities to be encountered in Zone C. RMT ordered two concrete manhole risers to place in the river upstream of the removal area to divert flow around the work zone. The silt curtain was then connected to the bank, anchored around the manhole risers, extended downstream, and anchored to the bank at the opposite end of the removal area. Heavier anchor chain was also added to the bottom of the silt curtain to assist in control of turbidity.

On March 3, 2008, RMT returned to the site to collect confirmation samples PM-SD-42R through PM-SD-46R. MDEQ's contractor was on site to observe the sampling event. Prior to the start of sampling, an oil sheen was discovered on the water within the sampling area. The sheen was emanating from a location along the banks that corresponded with two known outfalls to the river. RMT quickly responded by deploying oil booms around the source area to contain the sheen and contacting the project manager. Upon further inspection, flow from one of the outfalls was determined to be the source of the sheen. There had been rainfall overnight. The flow and sheen from the outfall stopped later that day. Based on historical sewer diagrams, it was determined that the outfall drained the Mill parking lots and a section of M-89. Run-off from M-89 was identified as the most likely source of the sheen from the outfall. Paul Bucholz with the MDEQ and Eric Wilson with the City of Plainwell were contacted with the relevant information and they determined that a spill report was not required. A message was left with the USEPA Project Manager on March 3, 2008, describing the situation.

After containing and documenting the sheen, RMT began collection of the repeat confirmation samples, PM-SD-042R through PM-SD-046R. Samples were collected with the hand auger after adequate material could not be collected using Lexan tubes. Material collected was black sand with gravel with trace dark grayish brown silt. The samples were sent to WATS for analysis.

On March 4, 2008, RMT placed fill and rip-rap along the banks in the western section of Zone D to complete the removal activities along that section of the banks. RMT moved the silt curtain and manhole risers to the next removal area.

On March 6, 2008, RMT received the results of the second round of confirmation sampling in the western section of Zone D. The concentration of PCBs in PM-SD-042R through PM-SD-046R were below the target concentration of 1 mg/kg. The results of the two sampling events from February 13 and March 3, 2008, are presented in Table 1. There was little difference between the results of samples collected using the excavator bucket versus using the hand auger.

Approximately 300 cubic yards of sediment and floodplain soil were removed from the banks in Zone D, of which 25 cubic yards segregated into lined roll off containers. Approximately 200 tons of fill and rip-rap were used to improve the banks. An approximately 150-foot section of shoreline in the middle of Zone D was capped and armored in place in lieu of excavation due to high PCB concentrations in residuals within the sediments. Confirmation sample locations for Zone D are shown in Table 6. Construction monitoring results are discussed in Section 3.

2.2.4 Zone C

Excavation in Zone C began on March 5, 2008. Zone C contained 650 feet of shoreline characterized as having steep banks with a vegetative cover of large trees, intermittent floodplain areas, and the highest water velocity of all four zones. Given the length of shoreline in Zone C and the high water velocities, the area was addressed in three sections which shortened the length of the silt curtain used to provide more effective control of turbidity.

For the eastern section of Zone C, using the concrete risers to anchor the silt curtain allowed RMT to use the full 300 feet of silt curtain. All visible residuals from the eastern section of Zone C were removed, loaded in a dump truck, and placed in the containment pad. Material was removed from a small floodplain area and from the near shore sediments at the toe of the bank slope to a depth of about 2 to 3 feet below the existing grade. Excavation was completed on March 6, 2008, and RMT collected confirmation samples the same day. A total of seven confirmation samples, PM-SD-47 through PM-SD-53, were collected using a hang auger and sent to WATS for analysis.

RMT received confirmation sample results on March 11, 2008. PCB concentrations exceeded the action limit of 1 mg/kg in samples PM-SD-48 and 51. Therefore, RMT excavated additional material from the river in the area of these two samples. After an additional 6 inches to 1 foot of material was removed and the sediment was clearly identified as natural sand and gravel river bed material, the areas were re-sampled using a hand auger. The results of the samples from the re-excavated areas were PM-SD-48R (1.2 mg/kg) and PM-SD-51R (3.14 mg/kg). In accordance with the Work Plan, which states that areas containing PCB concentrations higher than 1 mg/kg after two removal passes will be isolated in place by a geofabric layer and a 6-inch cover layer, RMT backfilled all of the excavated areas and placed rip-rap for erosion control. The day's activities were overseen by the USEPA.

On March 12, 2008, RMT moved the concrete risers and silt curtain to the middle section of Zone C, the next removal area. During the relocation of the silt curtain, two curtain sections were damaged and had to be replaced. The new removal area was 150 feet long, contained a small floodplain, and was exposed to high water velocities due to a bend in the river. The USEPA and MDEQ were on site to observe the work.

On March 13, 2008, with new silt curtains in place, RMT began excavating material from the middle section of Zone C. Visible residuals were excavated, loaded in a dump truck, and placed into the residuals containment pad. Work was slowed because the silt curtain was difficult to secure due to the swift river currents. However, excavation was

finished by mid-afternoon. Floodplain soils and near shore sediments were removed to a depth of 2 to 4 feet. Four confirmation samples, PM-SD-54 through PM-SD-57, were collected from the removal area and sent to WATS for analysis that day.

On March 18, 2008, RMT received the results of confirmation samples PM-SD-54 through PM-SD-57. PM-SD-55 (2.17 mg/kg), PM-SD-56 (13.1 mg/kg), and PM-SD-57 (156.1 mg/kg) were above the action level of 1 mg/kg, and PM-SD-57 exceeded the TSCA action level of 50 mg/kg, requiring segregation from the other excavation spoils. RMT re-excavated material from the area around PM-SD-55, PM-SD-56, and PM-SD-57 down to the natural river bottom and resampled the three locations. Based on the high result from PM-SD-57, the excavated material was placed in a plastic-lined roll-off box and covered to prevent run-on. Three new confirmation samples were collected, PM-SD-55R (1.74 mg/kg), PM-SD-56R (0.87 mg/kg), and PM-SD-57R (1.25 mg/kg). These samples were collected using the excavator bucket because the water in the sampling area was too deep for hand excavation.

The removal actions in the middle section of Zone C created a steeper, more erosion prone bank, than prior to excavation. On March 19, 2008, additional actions were taken to protect the banks from erosion. Due to the high water velocity acting on this section of the bank, RMT could not place the sandy fill used to reconfigure the banks in the other areas of the site. Instead, a geofabric was placed along the banks and anchored with rip-rap to provide the necessary erosion protection.

The last remaining section of bank to address was the western end of Zone C. Based on previous visual reconnaissance and the high flow velocity in the area, it was not anticipated that residuals were present along this section of bank. To confirm this, on March 14, 2008, RMT conducted six test pits along the remaining 180 feet of bank in the western end of Zone C. No residual material was observed in any of the test pits. RMT collected a sample of the material from each test pit, T-1 through T-6, and sent the samples to WATS for analysis for PCBs. Sample locations in Zone C are shown in Figure 7.

RMT met with the USEPA and MDEQ on March 19, 2008, and collected additional hand auger samples along this section. PCB levels in the hand auger samples ranged from 0.092 mg/kg to 5.6 mg/kg. Due to the high velocities, potential construction debris and steep banks, Weyerhaeuser requested this area be covered with geotextile fabric and erosion control stone without any excavation. The USEPA approved this concept in a letter dated March 28, 2008 (see Appendix A for a copy of this letter).

Approximately 300 cubic yards of sediment and floodplain soil were removed from the banks in Zone C, of which approximately 25 cubic yards was segregated into lined roll off containers. Approximately 250 tons of rip-rap were used to improve the banks. An approximately 180-foot section of banks at the western end of Zone C was armored in place in lieu of excavation of the area as described above due to high flow velocity in that section of the river.

2.3 Residual Handling

Historic sampling of source materials along the banks of the Plainwell Mill (CDM) indicated that typical PCB concentrations were below 50 ppm. However, during confirmation sampling events in one location each within Zone C and Zone D, sediment was sampled and found to contain PCB concentrations greater than 50 mg/kg at an individual location. As described in the excavation details, the materials removed near locations with greater than 50 mg/kg were segregated and placed into two lined roll-off boxes on site. Current land disposal restrictions specify that the waste materials on site must be characterized for PCBs prior to the addition of any solidification material; since the addition of this material has the potential to dilute or reduce the PCB concentrations. Therefore, prior to waste solidification, a total of six PCB samples were collected for characterization (one sample each from two roll-off boxes and four samples from the pad material). After solidification, two composite samples were collected for additional waste characterization (Paint Filter, SVOCs, VOCs, Pesticides & Herbicides). Results of PCB tests and subsequent waste characterization testing are included in Table 5.

Calciment bottom ash was used to solidify the residuals prior to transport to the off-site disposal facility. The calciment bottom ash material was brought on site in small quantities and placed within the containment pad the same day as delivery. Mixing of the calciment bottom ash and waste materials was performed using a long stick excavator. Dust monitoring was conducted during the solidification process and details are provided in Section 4.

The on-site portable water treatment system from Pro-Act was used to pump and treat free liquids from the residuals containment pad. Impacted water was pumped from the pad, treated, and discharged to the Kalamazoo River, as described above. A total of 185,000 gallons of impacted water was treated, sampled, and discharged from the residuals containment pad in accordance with the NPDES permit equivalent.

Weyerhaeuser submitted a Disposal Plan to the USEPA on April 16, 2008. While awaiting approval of the Disposal Plan, the site was secured and shut down. The dump truck and long reach excavators were decontaminated using a high pressure washer prior to being returned to Michigan CAT, and the containment pad was covered with a plastic liner. Decontamination water was placed in the containment pad. Over the next few months, RMT performed periodic

inspections of the site including running the water treatment system as necessary. On September 15, 2008, the Disposal Plan was approved by USEPA; the Disposal Plan is included in Appendix A.

2.4 Residuals Disposal

Before residuals could be removed and disposed of off-site, personnel and equipment needed to be scheduled and mobilized to the site, waste disposal contracts needed to be finalized and the site needed to be prepared for the work ahead. Site prep consisted of removing and treating excess water accumulated in the containment pad, building a truck washing station, and building a temporary gravel haul road. As indicated in Section 2.1, the temporary gravel haul road was constructed adjacent to the south side of the containment pad as shown on Figure 2. The temporary road provided improved access for loading the trucks adjacent to the containment pad. Once trucks were loaded, they proceeded to a spray wash area prior to exiting the site. The spray wash area was lined with HDPE and sloped to collect the spray wash water into a sump. Trucks were sprayed with a pressure washer to remove any materials that may have collected on the outside during loading operations. The water in the sump was then pumped to a temporary holding tank. Once the temporary holding tank was filled, the water was treated through the on-site water treatment system.

Cortez Trucking, a licensed hauler, was utilized for transport of materials using HDPE-lined trucks with bed covers. Loading and hauling of the material, which included residuals, sand/gravel/soils, plastic lining and tarps, and silt curtain, took place from October 29 to November 7, 2008. The material was transported to Waste Management Westside Landfill in Three Rivers, Michigan. A summary of all loads including time, weight, and manifest number are included on Table 7. A total of 4,704 tons of material was disposed at the Westside Landfill.

The segregated material contained in dumpsters, was disposed on November 11 and 24, 2008, at Environmental Quality Company (EQ) Wayne Disposal Facility in Belleville, Michigan. A total of 59.67 tons of material was disposed at EQ. Copies of the EQ manifests are provided as Appendix E.

2.5 Site Restoration

As indicated earlier, the surface material from the haul roads and banks were previously scraped, placed in the containment pad, and disposed off site with the residual material. The sand and liner system from the containment pad were removed and disposed along with the residuals at Westside Landfill. Equipment other than the job trailer and portable toilet were decontaminated using a high-pressure sprayer as necessary and removed from the site. The trailer will be utilized during investigation activities at the site. The decontamination water was

transferred to the holding tank for on-site treatment. The holding tank and water treatment system were cleaned by K&D Services, and any wash water was transferred off site for disposal.

Any construction-related debris or other remaining materials was removed or disposed of in accordance with federal, state, and local regulations. The main access road is utilized by the City of Plainwell and will remain in place. In addition, the silt fencing along the river will remain in place to reduce any sedimentation runoff into the Kalamazoo River.

Section 3

Construction Monitoring

3.1 Overview

The details of the construction monitoring program were consistent with the Emergency Action Design Report (RMT, January 2008). The monitoring activities focused on aspects of the Emergency Action associated with measuring potential resuspension of sediment during the residuals excavation work along the bank, effluent discharge monitoring as well as fill pad sampling and air monitoring results.

3.2 Resuspension Monitoring

Two movable YSI Sonde units, each equipped with probes to measure dissolved oxygen, turbidity, pH, conductivity, and temperature were installed to monitor turbidity during the emergency response action along the former Plainwell Mill banks. The units were installed 200 feet downstream of each removal area and at an upstream location of each removal zone. uninfluenced by the work in that zone. The approach was to compare turbidity data collected upstream and downstream of each removal area as a mechanism to track the impacts of the excavation activities on water quality. The turbidity data were also supplemented by weekly surface water PCB analyses and daily visual inspections of the silt curtain enclosing each removal area.

The water quality control performance criterion to trigger corrective responses was a consistently visible plume or reproducible turbidity readings at the downstream station that were the greater of two times the upstream water quality or 15 NTUs, whichever is greater.

Periodically during the excavation activities, downstream levels exceeding the action level were identified. As turbidity increases were recognized, modifications to construction operations were performed which included inspecting and reconfiguring the silt curtain, and slowing or stopping excavation activities. Both a tabular summary (Table 2) of turbidity data, including descriptions of how turbidity exceedences were mitigated, and a graphical representation of these results (Figures 8-1 to 8-12) are included with this report.

Surface water samples were collected in accordance with the procedures outlined in the Multi-Area Field Sampling Plan (FSP) for the site. These samples were collected once a week during removal activities from the same location as the upstream and downstream turbidity units. Surface water samples were analyzed for PCBs. The analytical results are summarized in

Table 3. PCBs were not identified in surface water samples above the method detection limits during the removal activities.

3.3 Wastewater Treatment System Discharge Monitoring

In accordance with the Substantive Requirement Document (SRD), the temporary wastewater treatment system rented from Pro-Act Services in Ludington, Michigan, was transported to the Former Plainwell Mill site prior to construction activities. The system was permitted to discharge up to 29,000 gallons per day at a flow rate up to 200 gallons per minute.

The sediment/residual material removed during the emergency action did not generate as much free liquid as originally anticipated. Therefore, wastewater was processed in batches during the removal activities. The need for treatment was based upon the volumes of water collected in the pad. Typically, precipitation-related events (large rainstorms or substantial snow melts) that created higher volumes of run-on water triggered the need for batch treatment operation.

Since winter weather conditions limited continuous construction activities, the system was partially dismantled between operations to avoid freezing of internal components. After early January 2008 rain events resulted in additional water accumulation within the containment pad, the system was set up for operation on January 14, 2008. The system was operated for approximately 8.5 hours over 2 days at a flow rate of 130 gallons per minute. The flow rate was approximately 65 percent of maximum with a total treated water volume of less than 10 percent of the daily permitted amount.

Influent and effluent samples were obtained during operations and analyzed for Total Suspended Solids (TSS), total phosphorus, and PCBs. RMT received initial laboratory results on January 29, 2008. These results indicated effluent levels of 0.99 ug/L and 0.73 ug/L total PCBs, which is over the discharge limit in the SRD. After verification of the results the next day and in accordance with the SRD, RMT contacted Ken Leanin with the MDEQ on January 30, 2008, at 2:45 p.m. EST to report an upset non-compliance for the wastewater treatment system. Written documentation with a plan of action to avoid any additional exceedances was submitted to the MDEQ on February 4, 2008.

Based on RMT's corrective action discussions with ProAct, there were no indications that the treatment system had operational problems. The equipment was operated in accordance with standard practice and back pressure on the tanks was acceptable to provide distribution of process water over the carbon bed and rule out the possibility of channeling. Furthermore, the carbon was unused and this was the first pass through the system so no breakthrough would be expected. A carbon contact time for the process water of 18 minutes corresponds to the 130 gallons per minute, well above the design contact time of 10 minutes. The incremental

pressure increase across the bag filters was well below the trigger of 5 psi or greater that requires a filter change.

Nonetheless, visual observations indicated that the influent water was turbid with noticeable solids. The concentration of suspended solids in the effluent ranged from 5 to 7 mg/L. Breakthrough of the solids, possibly due to areas of frozen carbon that caused channeling through the column, was hypothesized as the cause of the PCB detection in the effluent. A series of corrective actions to minimize future effluent PCB exceedances, as required by the SRD, was prepared and sent to the MDEQ. These corrective procedures were as follows:

- provide a post bag filter housing containing 1.0 um bag filters after the last carbon vessel but before the discharge sampling location;
- decrease the flow rate through the system to a maximum of 100 gallons per minute to improve the contact time on the media; and
- run the system discharge into the on-site holding tank until a verification sample analysis has been done.

Operation of the treatment system was not required again until snow melt and rains in March 2008. The water accumulated within the pad was pumped into the holding tank on March 19, 2008, and began recirculation through the treatment system. The recirculated sample indicated levels above detection and therefore the following operational control steps were taken:

- a post bag filter housing containing 1.0 um bag filters was installed after the last carbon vessel but before the discharge sampling location;
- decreased the flow rate through the system to a maximum of 100 gallons per minute to improve the contact time on the media; and
- run the system discharge into the on-site holding tank until a verification sample analysis was completed and reported.

Due to weather conditions, the system was restarted on March 28, 2008, with the influent and effluent sampled at that time. Detectable levels of PCBs were identified in the effluent and the water was recirculated through the system and resampled on March 31, 2008. The effluent sample at this time contained no detected PCBs and the water was then discharged to the Kalamazoo River. Any additional accumulation of water in the pad was pumped into the holding tank and recirculated through the system for a minimum of 24 hours prior to sampling. No detectable levels of PCBs were identified in any of the effluent samples after changing the operation to include the recirculation step. All of the wastewater sampling results are summarized in Table 4.

3.4 Fill and Dewatered Pad Material Sampling

The material within the containment pad was sampled, as described below, to ensure proper disposal.

1. The containment pad was separated into four quadrants. Each of the quadrants was sampled for total PCBs prior to the addition of the stabilizing agent (PAD-1A, 1B, 2A, 2B). The results indicated total PCB concentrations of 3.24 mg/kg, 3.2 mg/kg, 3.38 mg/kg, and 2.56 mg/kg.
2. Mintek Calciment bottom ash was used as the solidifying agent. A Material Safety Data Sheet is attached as Appendix D. Approximately 110 tons of the Calciment was mixed into the residual material using a backhoe.

After addition of solidifying agent, two samples were collected for waste characterization, (PAD-1 and PAD-2). Waste Management Westside RDF required analysis of the following prior to accepting the material: paint filter, SVOCs, VOCs, RCRA Metals, pesticides and herbicides, and PCBs. Results are summarized on Table 5.

Two composite samples, one from each of the segregated dumpsters, were also analyzed for PCBs. RB-East was the material segregated from the central portion of Zone C with historical higher levels of PCB identified, the eight point composite sample of the 20 cubic yards of material in RB-East contained 3.21 mg/kg PCBs. RB-West dumpster contained 22 cubic yards of material segregated from the Zone D in the area of the visible sheen on the water surface. The PCB content of this composite sample was 0.62 mg/kg. All of the segregated material was transported to EQ hazardous waste landfill.

Samples of material brought on site to be used as fill were also analyzed for PCBs and RCRA metals. In the original report sent from the laboratory, it was discovered that the fill soils were mislabeled in the laboratory. Therefore the laboratory re-ran the fill sample and found that the results, which were below background and Part 201 criterion for all analytes tested, matched the results of the four other fill samples analyzed. This information was submitted to the USEPA and MDEQ under separate cover. The letter from TriMatrix Laboratories, Inc. explaining the error in the original fill sample analysis is attached in Appendix A of this report.

3.5 Air Monitoring

Air monitoring was conducted during offloading and mixing of the Calciment material according to the Site Health and Safety Plan. Air monitoring results from the personal data RAM indicate that the maximum short term exposure limit (15 minute average) observed was ~1 mg/m³. This value is significantly lower than the OSHA 8-Hour Time Weighted Average threshold value of 15 mg/m³. Results of the air monitoring are provided in Figures 9-1 through 9-3.

Section 4 References

Arcadis BBL. 2007. Former Plainwell Impoundment Time-Critical Removal Action Design Report.

RMT, Inc. 2008. Plainwell Mill Emergency Action Design Report.

Table 1
Confirmation Sediment Sampling Results
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Sample ID:	PM-SD-001	PM-SD-002	PM-SD-003	PM-SD-003R	PM-SD-004	PM-SD-005	PM-SD-005	PM-SD-006	PM-SD-007	PM-SD-08	PM-SD-09	PM-SD-10	PM-SD-10	PM-SD-11	PM-SD-12	PM-SD-13	PM-SD-13R	PM-SD-14	PM-SD-15	PM-SD-16	PM-SD-17	PM-SD-18	PM-SD-19	PM-SD-19
Zone:	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B	B
Comment:				Re-sample			Duplicate						Duplicate				Re-sample							Duplicate
Date:	11/19/2007	11/19/2007	11/19/2007	11/27/2007	11/19/2007	11/19/2007	11/19/2007	11/20/2007	11/20/2007	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/6/2008	12/6/2008	12/12/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007	12/13/2007
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aroclor-1016	ND(<0.12)	0.11	0.17 P	ND(<0.0078)	0.15 P	0.11 P	0.12	ND(<0.14)	0.19	0.074 P	0.041	ND(<0.090)	ND(<0.097)	ND(<0.110)	ND(<0.016)	ND(<0.110)	ND(<0.0094)	ND(<0.0087)	ND(<0.0081)	ND(<0.0092)	ND(<0.0083)	ND(<0.0098)	ND(<0.0094)	ND(<0.0099)
Aroclor-1221	ND(<0.12)	ND(<0.0097)	ND(<0.12)	ND(<0.0078)	ND(<0.11)	ND(<0.11)	ND(<0.090)	ND(<0.14)	ND(<0.13)	ND(<0.011)	ND(<0.016)	ND(<0.090)	ND(<0.097)	ND(<0.110)	ND(<0.016)	ND(<0.110)	ND(<0.0094)	ND(<0.0087)	ND(<0.0081)	ND(<0.0092)	ND(<0.0083)	ND(<0.0098)	ND(<0.0094)	ND(<0.0099)
Aroclor-1232	ND(<0.12)	ND(<0.0097)	ND(<0.12)	ND(<0.0078)	ND(<0.11)	ND(<0.11)	ND(<0.090)	ND(<0.14)	ND(<0.13)	ND(<0.011)	ND(<0.016)	ND(<0.090)	ND(<0.097)	ND(<0.110)	ND(<0.016)	ND(<0.110)	ND(<0.0094)	ND(<0.0087)	ND(<0.0081)	ND(<0.0092)	ND(<0.0083)	ND(<0.0098)	ND(<0.0094)	ND(<0.0099)
Aroclor-1242	ND(<0.12)	ND(<0.0097)	ND(<0.12)	ND(<0.0078)	ND(<0.11)	ND(<0.11)	ND(<0.090)	ND(<0.14)	ND(<0.13)	ND(<0.011)	ND(<0.016)	ND(<0.090)	ND(<0.097)	ND(<0.110)	ND(<0.016)	ND(<0.110)	ND(<0.0094)	ND(<0.0087)	ND(<0.0081)	ND(<0.0092)	ND(<0.0083)	ND(<0.0098)	ND(<0.0094)	ND(<0.0099)
Aroclor-1248	0.50 P	0.10 P	0.56	ND(<0.0078)	0.32	0.31 P	0.3	0.33	0.26	0.210 PD	0.14	0.260 D	0.340 D	0.190 D	0.110 P	0.910 PD	ND(<0.0094)	ND(<0.0087)	ND(<0.0081)	ND(<0.0092)	ND(<0.0083)	0.024	ND(<0.0094)	ND(<0.0099)
Aroclor-1254	0.33	0.6	0.74	ND(<0.0078)	0.16	0.19	0.14	0.22	0.17 P	0.12	0.071	0.140 D	0.190 PD	0.110 D	0.130 P	0.730 D	ND(<0.0094)	ND(<0.0087)	0.033	ND(<0.0092)	ND(<0.0083)	0.014	ND(<0.0094)	ND(<0.0099)
Aroclor-1260	ND(<0.12)	ND(<0.12)	ND(<0.12)	ND(<0.0078)	ND(<0.11)	ND(<0.11)	ND(<0.090)	ND(<1.40)	ND(<0.13)	0.050 P	ND(<0.016)	ND(<0.090)	ND(<0.097)	ND(<0.110)	ND(<0.016)	ND(<0.110)	ND(<0.0094)	ND(<0.0087)	ND(<0.0081)	ND(<0.0092)	ND(<0.0083)	ND(<0.0098)	ND(<0.0094)	ND(<0.0099)
Total PCBs	0.83	0.81	1.47	ND(<0.0078)	0.63	0.61	0.56	0.55	0.62	0.454	0.252	0.4	0.53	0.3	0.24	1.64	ND(<0.0094)	ND(<0.0087)	0.033	ND(<0.0092)	ND(<0.0083)	0.036	ND(<0.0094)	ND(<0.0099)

Sample ID:	PM-SD-20	PM-SD-21	PM-SD-22	PM-SD-23	PM-SD-24	PM-SD-25	PM-SD-26	PM-SD-27	PM-SD-28	PM-SD-29	PM-SD-29	PM-SD-29R	PM-SD-30	PM-SD-31	PM-SD-32	PM-SD-32R	PM-SD-33	PM-SD-34	PM-SD-35	PM-SD-36	PM-SD-36	PM-SD-37	PM-SD-38	PM-SD-39
Zone:	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	D	D	D	D	D	D
Comment:										Duplicate		Re-sample				Re-sample					Duplicate			
Date:	12/13/2007	12/20/2007	12/20/2007	12/20/2007	12/20/2007	12/20/2007	12/20/2007	12/20/2007	12/20/2007	1/5/2008	1/5/2008	1/10/2008	1/5/2008	1/5/2008	1/5/2008	1/5/2008	1/10/2008	1/5/2008	1/5/2008	1/31/2007	1/31/2007	1/31/2007	1/31/2007	1/31/2007
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aroclor-1016	ND(<0.0085)	ND(<8.9)	ND(<8.0)	ND(<8.2)	ND(<10)	ND(<8.3)	ND(<8.0)	0.06	ND(<0.085)	ND(<0.088)	ND(<0.095)	ND(<0.011)	ND(<0.0095)	0.12 P	0.27 P	ND(<0.010)	0.014 P	0.20 D	1.3 PD	13 D	4.4 PD	2.8 PD	0.22 D	1.1 PD
Aroclor-1221	ND(<0.0085)	ND(<8.9)	ND(<8.0)	ND(<8.2)	ND(<10)	ND(<8.3)	ND(<8.0)	ND(<8.7)	ND(<0.085)	ND(<0.088)	ND(<0.095)	ND(<0.011)	ND(<0.0095)	ND(<0.0092)	ND(<0.120)	ND(<0.010)	ND(<0.0082)	ND(<0.098)	ND(<0.21)	ND(<1.0)	ND(<0.910)	ND(<1.2)	ND(<0.14)	ND(<0.17)
Aroclor-1232	ND(<0.0085)	ND(<8.9)	ND(<8.0)	ND(<8.2)	ND(<10)	ND(<8.3)	ND(<8.0)	ND(<8.7)	ND(<0.085)	ND(<0.088)	ND(<0.095)	ND(<0.011)	ND(<0.0095)	ND(<0.0092)	ND(<0.120)	ND(<0.010)	ND(<0.0082)	ND(<0.098)	ND(<0.21)	ND(<1.0)	ND(<0.910)	ND(<1.2)	ND(<0.14)	ND(<0.17)
Aroclor-1242	ND(<0.0085)	ND(<8.9)	ND(<8.0)	ND(<8.2)	ND(<10)	ND(<8.3)	ND(<8.0)	ND(<8.7)	ND(<0.085)	ND(<0.088)	ND(<0.095)	ND(<0.011)	ND(<0.0095)	ND(<0.0092)	ND(<0.120)	ND(<0.010)	ND(<0.0082)	ND(<0.098)	ND(<0.21)	ND(<1.0)	ND(<0.910)	ND(<1.2)	ND(<0.14)	ND(<0.17)
Aroclor-1248	ND(<0.0085)	ND(<8.9)	ND(<8.0)	0.015	ND(<10)	ND(<8.3)	ND(<8.0)	0.051	0.160 D	0.760 D	0.65	ND(<0.011)	ND(<0.0095)	0.330 D	1.20 D	0.590 D	ND(<0.0082)	ND(<0.098)	2.6 D	7.0 PD	8.0 D	5.8 D	0.34 PD	0.44 PD
Aroclor-1254	ND(<0.0085)	ND(<8.9)	ND(<8.0)	0.0088	ND(<10)	ND(<8.3)	ND(<8.0)	0.044	0.110 D	0.250 D	0.18	ND(<0.011)	ND(<0.0095)	0.11	0.50 D	0.17	ND(<0.0082)	ND(<0.098)	2.8D	4.3 D	3.7 PD	3.8 D	0.29 D	0.24 PD
Aroclor-1260	ND(<0.0085)	ND(<8.9)	ND(<8.0)	ND(<8.2)	ND(<10)	ND(<8.3)	ND(<8.0)	0.026 P	ND(<0.085)	ND(<88)	ND(<0.095)	ND(<0.011)	ND(<0.0095)	0.069 P	0.39 D	ND(<0.010)	ND(<0.0082)	ND(<0.098)	0.34 D	ND(<1.0)	ND(<0.910)	ND(<1.2)	ND(<0.14)	ND(<0.17)
Total PCBs	ND(<0.0085)	ND(<8.9)	ND(<8.0)	0.0238	ND(<10)	ND(<8.3)	ND(<8.0)	0.181	0.27	1.01	0.83	ND(<0.011)	ND(<0.0095)	0.629	2.36	0.76	0.014	0.2	7.04	24.3	16.1	12.4	0.85	1.78

Sample ID:	PM-SD-40	PM-SD-41	PEX-1	PEX-2	PEX-3	PEX-4	PEX-5	PEX-6	PEX-7	PM-SD-42	PM-SD-42R	PM-SD-43	PM-SD-43R	PM-SD-44	PM-SD-44R	PM-SD-45	PM-SD-45R	PM-SD-46	PM-SD-46R	PEX-8	PEX-9	PEX-10	PEX-11	PEX-12
Zone:	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	C	C
Comment:																								
Date:	1/31/2007	1/31/2007	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/7/2008	2/13/2008	3/3/2008	2/13/2008	3/3/2008	2/13/2008	3/3/2008	2/13/2008	3/3/2008	2/13/2008	3/3/2008	2/13/2008	2/13/2008	2/13/2008	2/13/2008	2/13/2008
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aroclor-1016	8.3 D	20 D	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.010)	ND(<0.0099)	ND(<0.010)	ND(<0.0094)	ND(<0.11)	ND(<0.011)	ND(<0.010)	ND(<0.100)	ND(<0.012)	ND(<0.120)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)
Aroclor-1221	ND(<1.1)	ND(<16)	57	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.010)	ND(<0.0099)	ND(<0.010)	ND(<0.0094)	ND(<0.11)	ND(<0.011)	ND(<0.010)	ND(<0.100)	ND(<0.012)	ND(<0.120)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)
Aroclor-1232	ND(<1.1)	ND(<16)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.010)	ND(<0.0099)	ND(<0.010)	ND(<0.0094)	ND(<0.11)	ND(<0.011)	ND(<0.010)	ND(<0.100)	ND(<0.012)	ND(<0.120)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)	ND(<0.10)
Aroclor-1242	ND(<1.1)	ND(<16)	75	14	0.11	0.46	0.22	ND(<0.10)	ND(<0.10)	ND(<0.010)	ND(<0.0099)	ND(<0.010)	ND(<0.0094)	ND(<0.11)	ND(<0.011)	ND(<0.010)	ND(<0.100)	ND(<0.012)	ND(<0.120)	0.94	ND(<0.10)	0.23	ND(<0.10)	0.25
Aroclor-1248	12 D	160 D	76	4.9	0.15	0.59	0.95	ND(<0.10)	2.1	0.13	0.110 P	0.2	0.150 P	1.3	0.130 P	0.023	0.360 D	0.079 P	0.420 D	9.3	0.17	1.3	0.31	0.25
Aroclor-1254	7.0 D	310 D	65	3.7	ND(<0.10)	0.87	3.4	0.11	1.7	ND(<0.010)	0.04	ND(<0.010)	0.032 P	0.27	0.036 P	0.017	0.250 D	0.083	0.360 D	11	0.18	1.2	0.76	0.26
Aroclor-1260	ND(<1.1)	23 PD	15	0.98	ND(<0.10)	0.22	0.55	ND(<0.10)	0.57	ND(<0.010)	ND(<0.0099)	ND(<0.010)	ND(<0.0094)	ND(<0.11)	ND(<0.011)	ND(<0.010)	ND(<0.100)	ND(<0.012)	ND(<0.120)	2.2	ND(<0.10)	0.32	ND(<0.10)	ND(<0.10)
Total PCBs	27.3	513	288	23.58	0.26	2.14	5.12	0.11	4.37	0.13	0.15	0.2	0.182	1.57	0.166	0.04	0.61	0.162	0.78	23.44	0.35	3.05	1.07	0.76

Sample ID:	PEX-13	PEX-14	PM-SD-47	PM-SD-48	PM-SD-48R	PM-SD-49	PM-SD-50	PM-SD-50	PM-SD-51	PM-SD-51R	PM-SD-52	PM-SD-53	PM-SD-54	PM-SD-54	PM-SD-55	PM-SD-55R	PM-SD-56	PM-SD-56R	PM-SD-57	PM-SD-57R	TP-1	TP-2	TP-3	TP-4	
Zone:	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Comment:					Re-sample			Duplicate		Re-sample				Duplicate		Re-sample		Re-sample		Re-sample					
Date:	2/13/2008	2/13/2008	3/6/2008	3/6/2008	3/11/2008	3/6/2008	3/6/2008	3/6/2008	3/6/2008	3/11/2008	3/6/2008	3/6/2008	3/13/2008	3/13/2008	3/13/2008	3/18/2008	3/13/2008	3/18/2008	3/18/2008	3/13/2008	3/18/2008	3/14/2008	3/14/2008	3/14/2008	3/14/2008
Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aroclor-1016	ND(<0.10)	ND(<0.10)	ND(<0.0087)	ND(<0.120)	ND(<0.130)	ND(<0.120)	ND(<0.011)	ND(<0.013)	ND(<0.011)	ND(<0.110)	ND(<0.012)	ND(<0.0085)	0.300 DP	0.28	0.880 D	ND(<0.140)	6.0 D	ND(<0.086)	90.0 D	ND(<0.100)	ND(<0.120)	ND(<0.100)	ND(<0.011)	ND(<0.0097)	
Aroclor-1221	ND(<0.10)	ND(<0.10)	ND(<0.0087)	ND(<0.120)	ND(<0.130)	ND(<0.120)	ND(<0.011)	ND(<0.013)	ND(<0.011)	ND(<0.110)	ND(<0.012)	ND(<0.0085)	ND(<0.011)	ND(<0.011)	ND(<0.110)	ND(<0.140)	ND(<0.110)	ND(<0.086)	ND(<17.0)	ND(<0.100)	ND(<0.120)	ND(<0.100)	ND(<0.011)	ND(<0.0097)	
Aroclor-1232	ND(<0.10)	ND(<0.10)	ND(<0.0087)	ND(<0.120)	ND(<0.130)	ND(<0.120)	ND(<0.011)	ND(<0.013)	ND(<0.011)	ND(<0.110)	ND(<0.012)	ND(<0.0085)	ND(<0.011)	ND(<0.011)	ND(<0.110)	ND(<0.140)	ND(<0.110)	ND(<0.086)	ND(<17.0)	ND(<0.100)	ND(<0.120)	ND(<0.100)	ND(<0.011)	ND(<0.0097)	
Aroclor-1242	8.1	ND(<0.10)	ND(<0.0087)	ND(<0.120)	ND(<0.130)	ND(<0.120)	ND(<0.011)	ND(<0.013)	ND(<0.011)	ND(<0.110)	ND(<0.012)	ND(<0.0085)	0.230 DP	0.370 P	0.700 D	0.88	3.70 DP	ND(<0.086)	56.0 DP	ND(<0.100)	ND(<0.120)	ND(<0.100)	ND(<0.011)	ND(<0.0097)	
Aroclor-1248	2.6	0.39	0.075 P	0.860 PD	ND(<0.130)	ND(<0.120)	ND(<0.011)	0.15	0.620 D	2.200 D	0.14	0.500 D	0.160 P	ND(<0.011)	0.410 D	0.600 DP	2.20 DP	0.620 DP	ND(<17.0)	0.900 DP	ND(<0.120)	ND(<0.100)	ND(<0.011)	ND(<0.0097)	
Aroclor-1254	1	0.41	0.1	0.480 D	1.200 D	0.370 D	0.077	0.086	0.830 D	0.940 D	0.034	0.074	0.16	0.21	0.180 D	0.260 D	1.20 D	0.250 D	8.70 DP	0.350 D	0.350 D	0.280 D	0.043 P	0.052	
Aroclor-1260	0.31	ND(<0.10)	ND(<0.0087)	ND(<0.120)	ND(<0.130)	ND(<0.120)	ND(<0.011)	ND(<0.013)	ND(<0.011)	ND(<0.110)	ND(<0.012)	ND(<0.0085)	ND(<0.011)	ND(<0.011)	ND(<0.110)	ND(<0.140)	ND(<0.110)	ND(<0.086)	1.40 DP	ND(<0.100)	ND(<0.120)	ND(<0.100)	ND(<0.011)	ND(<0.0097)	
Total PCBs	12.01	0.8	0.175	1.34	1.2	0.37	0.077	0.236	1.45	3.14	0.174	0.574	0.85	0.86	2.17	1.74	13.1	0.87	156.1	1.25	0.35	0.28	0.043	0.052	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
11/13/2007	10:00 AM	3.5	3.1	15.0	Begin excavating the western half of Zone A - 8am
	11:00 AM	3.4	3.9	15.0	
	12:00 PM	2.2	2.1	15.0	
	1:00 PM	1.6	1.8	15.0	
	2:00 PM	1.4	1.7	15.0	
	3:00 PM	1.4	1.4	15.0	
	4:00 PM	1.2	1.4	15.0	
	5:00 PM	1.9	1.9	15.0	End Excavation - 4:30pm
	6:00 PM	1.6	2.0	15.0	
	7:00 PM	1.3	1.7	15.0	
	8:00 PM	1.5	1.6	15.0	
	9:00 PM	1.7	1.9	15.0	
	10:00 PM	1.9	2.1	15.0	
	11:00 PM	2.0	2.1	15.0	
11/14/2007	12:00 AM	2.3	2.4	15.0	
	1:00 AM	2.1	2.4	15.0	
	2:00 AM	2.2	2.5	15.0	
	3:00 AM	2.2	2.4	15.0	
	4:00 AM	2.1	2.5	15.0	
	5:00 AM	2.1	2.4	15.0	
	6:00 AM	2.0	2.4	15.0	
	7:00 AM	2.2	2.6	15.0	
	8:00 AM	2.1	2.4	15.0	Begin excavating the western half of Zone A
	9:00 AM	2.0	2.1	15.0	
	10:00 AM	1.8	1.8	15.0	
	11:00 AM	1.6	1.6	15.0	
	12:00 PM	1.4	1.4	15.0	
	1:00 PM	1.3	1.3	15.0	
	2:00 PM	1.2	1.3	15.0	
	3:00 PM	1.1	2.0	15.0	
	4:00 PM	1.1	2.9	15.0	
	5:00 PM	1.1	5.2	15.0	End Excavation - 4:30pm
	6:00 PM	1.4	4.0	15.0	
	7:00 PM	1.5	3.1	15.0	
	8:00 PM	1.6	2.7	15.0	
	9:00 PM	2.0	2.5	15.0	
	10:00 PM	2.1	2.5	15.0	
	11:00 PM	2.2	2.5	15.0	
11/15/2007	12:00 AM	2.3	2.7	15.0	
	1:00 AM	2.3	2.7	15.0	
	2:00 AM	2.5	2.8	15.0	
	3:00 AM	2.6	2.8	15.0	
	4:00 AM	2.5	2.8	15.0	
	5:00 AM	2.4	2.9	15.0	
	6:00 AM	2.5	2.9	15.0	
	7:00 AM	2.3	2.6	15.0	
	8:00 AM	2.4	2.5	15.0	Begin excavating the western half of Zone A
	9:00 AM	2.2	2.4	15.0	
	10:00 AM	2.1	3.6	15.0	
	11:00 AM	1.9	3.0	15.0	
	12:00 PM	1.7	4.0	15.0	
	1:00 PM	1.6	2.3	15.0	
	2:00 PM	1.6	1.9	15.0	
	3:00 PM	1.4	1.5	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
	4:00 PM	1.4	1.5	15.0	
	5:00 PM	1.4	1.3	15.0	End Excavation - 4:30pm
	6:00 PM	1.4	1.3	15.0	
	7:00 PM	1.5	1.4	15.0	
	8:00 PM	1.6	1.6	15.0	
	9:00 PM	1.8	1.9	15.0	
	10:00 PM	1.8	2.0	15.0	
	11:00 PM	2.0	2.2	15.0	
11/16/2007	12:00 AM	2.1	2.2	15.0	
	1:00 AM	2.1	2.4	15.0	
	2:00 AM	2.3	2.5	15.0	
	3:00 AM	2.4	2.5	15.0	
	4:00 AM	2.4	2.6	15.0	
	5:00 AM	2.3	2.6	15.0	
	6:00 AM	2.2	2.8	15.0	
	7:00 AM	2.4	2.6	15.0	
	8:00 AM	2.3	2.7	15.0	Begin excavating the western half of Zone A
	9:00 AM	2.4	2.6	15.0	Reconfigure turbidity curtain to close leak of turbid water.
	10:00 AM	2.2	5.7	15.0	
	11:00 AM	2.0	4.1	15.0	
	12:00 PM	1.9	3.2	15.0	
	1:00 PM	2.0	3.3	15.0	
	2:00 PM	1.8	3.6	15.0	
	3:00 PM	1.9	3.9	15.0	
	4:00 PM	1.8	3.5	15.0	
	5:00 PM	1.7	3.2	15.0	
	6:00 PM	1.6	2.3	15.0	End Excavation - 4:30pm - Leave site for the weekend.
	7:00 PM	1.7	2.3	15.0	
	8:00 PM	1.7	2.3	15.0	
	9:00 PM	1.8	2.4	15.0	
	10:00 PM	1.9	2.4	15.0	
	11:00 PM	1.8	2.3	15.0	
11/17/2007	12:00 AM	1.8	2.4	15.0	
	1:00 AM	1.9	2.5	15.0	
	2:00 AM	2.0	2.4	15.0	
	3:00 AM	1.9	2.4	15.0	
	4:00 AM	1.9	2.3	15.0	
	5:00 AM	1.9	2.3	15.0	
	6:00 AM	2.0	2.5	15.0	
	7:00 AM	2.0	2.4	15.0	
	8:00 AM	2.0	2.2	15.0	
	9:00 AM	1.9	2.2	15.0	
	10:00 AM	1.9	2.1	15.0	
	11:00 AM	1.9	1.9	15.0	
	12:00 PM	1.7	1.9	15.0	
	1:00 PM	1.6	1.9	15.0	
	2:00 PM	1.7	1.8	15.0	
	3:00 PM	1.6	1.8	15.0	
	4:00 PM	1.8	1.8	15.0	
	5:00 PM	1.7	1.8	15.0	
	6:00 PM	1.6	1.9	15.0	
	7:00 PM	1.6	1.9	15.0	
	8:00 PM	1.7	2.0	15.0	
	9:00 PM	1.7	1.9	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
11/18/2007	10:00 PM	1.8	1.8	15.0	
	11:00 PM	1.8	1.9	15.0	
	12:00 AM	1.8	1.8	15.0	
	1:00 AM	1.8	1.9	15.0	
	2:00 AM	2.3	1.8	15.0	
	3:00 AM	1.8	1.8	15.0	
	4:00 AM	1.8	1.8	15.0	
	5:00 AM	2.1	1.9	15.0	
	6:00 AM	2.0	2.0	15.0	
	7:00 AM	2.0	2.1	15.0	
	8:00 AM	2.1	2.4	15.0	
	9:00 AM	2.2	2.2	15.0	
	10:00 AM	2.1	2.1	15.0	
	11:00 AM	2.1	2.1	15.0	
	12:00 PM	2.0	2.1	15.0	
	1:00 PM	1.9	2.1	15.0	
	2:00 PM	1.8	2.1	15.0	
	3:00 PM	1.8	2.1	15.0	
	4:00 PM	1.8	2.2	15.0	
	5:00 PM	1.8	2.1	15.0	
	6:00 PM	1.8	2.3	15.0	
	7:00 PM	1.9	2.4	15.0	
	8:00 PM	2.0	2.4	15.0	
	9:00 PM	2.1	2.3	15.0	
	10:00 PM	2.2	2.5	15.0	
	11:00 PM	2.1	2.4	15.0	
11/19/2007	12:00 AM	2.1	2.5	15.0	
	1:00 AM	2.2	2.5	15.0	
	2:00 AM	2.2	2.4	15.0	
	3:00 AM	2.2	2.6	15.0	
	4:00 AM	2.4	2.7	15.0	
	5:00 AM	2.7	3.0	15.0	
	6:00 AM	2.8	3.3	15.0	
	7:00 AM	3.0	3.4	15.0	
	8:00 AM	3.1	3.8	15.0	Begin excavating the western half of Zone A
	9:00 AM	3.1	3.8	15.0	
	10:00 AM	3.1	3.5	15.0	
	11:00 AM	2.8	3.4	15.0	
	12:00 PM	2.6	3.8	15.0	
	1:00 PM	2.5	4.2	15.0	
	2:00 PM	2.4	3.7	15.0	
	3:00 PM	2.3	3.8	15.0	
	4:00 PM	2.2	3.9	15.0	
	5:00 PM	2.1	4.3	15.0	
	6:00 PM	2.0	3.2	15.0	End Excavation - 4:30pm
	7:00 PM	2.0	3.2	15.0	
	8:00 PM	2.0	3.1	15.0	
	9:00 PM	2.0	2.9	15.0	
	10:00 PM	2.0	2.7	15.0	
	11:00 PM	2.0	2.6	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
11/20/2007	12:00 AM	2.0	2.6	15.0	
	1:00 AM	2.1	2.7	15.0	
	2:00 AM	2.2	2.8	15.0	
	3:00 AM	2.2	2.9	15.0	
	4:00 AM	2.2	2.8	15.0	
	5:00 AM	2.3	2.9	15.0	
	6:00 AM	2.5	2.8	15.0	
	7:00 AM	2.6	3.0	15.0	
	8:00 AM	2.8	3.5	15.0	Begin excavating the western half of Zone A
	9:00 AM	2.7	3.3	15.0	
	10:00 AM	2.6	3.0	15.0	
	11:00 AM	2.6	3.2	15.0	
	12:00 PM	2.4	3.3	15.0	
	1:00 PM	2.2	3.2	15.0	
	2:00 PM	2.2	3.5	15.0	
	3:00 PM	2.2	3.8	15.0	
	4:00 PM	2.4	3.2	15.0	
	5:00 PM	2.3	3.4	15.0	
	6:00 PM	2.2	3.1	15.0	End Excavation - 4:30pm - Leave site for holiday weekend.
	7:00 PM	2.7	3.3	15.0	
	8:00 PM	2.5	3.2	15.0	
	9:00 PM	2.6	3.3	15.0	
	10:00 PM	2.7	3.2	15.0	
	11:00 PM	2.7	3.4	15.0	
11/21/2007	12:00 AM	2.6	3.2	15.0	No work - Thanksgiving Holiday Upstream turbidity meter batteries die at 6:00 AM.
	1:00 AM	2.6	3.2	15.0	
	2:00 AM	2.8	4.4	15.0	
	3:00 AM	2.9	3.9	15.0	
	4:00 AM	2.8	3.5	15.0	
	5:00 AM	3.4	4.3	15.0	
	6:00 AM	NA	4.9	15.0	
	7:00 AM	NA	3.6	15.0	
	8:00 AM	NA	3.1	15.0	
	9:00 AM	NA	2.8	15.0	
	10:00 AM	NA	2.6	15.0	
	11:00 AM	NA	2.4	15.0	
	12:00 PM	NA	2.4	15.0	
	1:00 PM	NA	2.6	15.0	
	2:00 PM	NA	3.0	15.0	
	3:00 PM	NA	4.1	15.0	
	4:00 PM	NA	4.1	15.0	
	5:00 PM	NA	4.3	15.0	
	6:00 PM	NA	4.3	15.0	
	7:00 PM	NA	4.4	15.0	
	8:00 PM	NA	5.9	15.0	
	9:00 PM	NA	7.0	15.0	
	10:00 PM	NA	7.2	15.0	
	11:00 PM	NA	7.7	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
11/22/2007	12:00 AM	NA	8.1	15.0	No work - Thanksgiving Holiday
	1:00 AM	NA	8.9	15.0	
	2:00 AM	NA	9.2	15.0	
	3:00 AM	NA	9.3	15.0	
	4:00 AM	NA	9.1	15.0	
	5:00 AM	NA	9.4	15.0	
	6:00 AM	NA	9.8	15.0	
	7:00 AM	NA	9.4	15.0	
	8:00 AM	NA	9.3	15.0	
	9:00 AM	NA	9.1	15.0	
	10:00 AM	NA	9.0	15.0	
	11:00 AM	NA	8.6	15.0	
	12:00 PM	NA	7.9	15.0	
	1:00 PM	NA	7.5	15.0	
	2:00 PM	NA	6.8	15.0	
	3:00 PM	NA	6.1	15.0	
	4:00 PM	NA	5.7	15.0	
	5:00 PM	NA	5.1	15.0	
	6:00 PM	NA	4.8	15.0	
	7:00 PM	NA	4.7	15.0	
	8:00 PM	NA	4.5	15.0	
	9:00 PM	NA	4.6	15.0	
	10:00 PM	NA	4.3	15.0	
	11:00 PM	NA	4.1	15.0	
11/23/2007	12:00 AM	NA	4.0	15.0	No work - Thanksgiving Holiday
	1:00 AM	NA	4.1	15.0	
	2:00 AM	NA	4.1	15.0	
	3:00 AM	NA	4.2	15.0	
	4:00 AM	NA	4.3	15.0	
	5:00 AM	NA	4.6	15.0	
	6:00 AM	NA	4.7	15.0	
	7:00 AM	NA	4.8	15.0	
	8:00 AM	NA	5.2	15.0	
	9:00 AM	NA	5.4	15.0	
	10:00 AM	NA	5.1	15.0	
	11:00 AM	NA	4.9	15.0	
	12:00 PM	NA	4.5	15.0	
	1:00 PM	NA	4.6	15.0	
	2:00 PM	NA	4.2	15.0	
	3:00 PM	NA	4.3	15.0	
	4:00 PM	NA	4.1	15.0	
	5:00 PM	NA	3.8	15.0	
	6:00 PM	NA	3.8	15.0	
	7:00 PM	NA	3.8	15.0	
	8:00 PM	NA	3.7	15.0	
	9:00 PM	NA	3.7	15.0	
	10:00 PM	NA	4.2	15.0	
	11:00 PM	NA	3.8	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
11/24/2007	12:00 AM	NA	4.0	15.0	No work - Thanksgiving Holiday
	1:00 AM	NA	3.8	15.0	
	2:00 AM	NA	3.9	15.0	
	3:00 AM	NA	3.9	15.0	
	4:00 AM	NA	3.9	15.0	
	5:00 AM	NA	4.0	15.0	
	6:00 AM	NA	4.3	15.0	
	7:00 AM	NA	4.1	15.0	
	8:00 AM	NA	4.2	15.0	
	9:00 AM	NA	4.3	15.0	
	10:00 AM	NA	4.2	15.0	
	11:00 AM	NA	4.1	15.0	
	12:00 PM	NA	4.2	15.0	
	1:00 PM	NA	3.9	15.0	
	2:00 PM	NA	3.8	15.0	
	3:00 PM	NA	3.7	15.0	
	4:00 PM	NA	3.7	15.0	
	5:00 PM	NA	3.7	15.0	
	6:00 PM	NA	3.7	15.0	
	7:00 PM	NA	3.8	15.0	
	8:00 PM	NA	3.9	15.0	
	9:00 PM	NA	4.0	15.0	
	10:00 PM	NA	4.0	15.0	
	11:00 PM	NA	4.2	15.0	
11/25/2007	12:00 AM	NA	4.8	15.0	No work - Thanksgiving Holiday
	1:00 AM	NA	4.3	15.0	
	2:00 AM	NA	4.5	15.0	
	3:00 AM	NA	4.6	15.0	
	4:00 AM	NA	4.6	15.0	
	5:00 AM	NA	4.8	15.0	
	6:00 AM	NA	4.8	15.0	
	7:00 AM	NA	4.9	15.0	
	8:00 AM	NA	5.0	15.0	
	9:00 AM	NA	5.0	15.0	
	10:00 AM	NA	5.0	15.0	
	11:00 AM	NA	4.6	15.0	
	12:00 PM	NA	4.6	15.0	
	1:00 PM	NA	4.5	15.0	
	2:00 PM	NA	4.3	15.0	
	3:00 PM	NA	4.3	15.0	
	4:00 PM	NA	4.1	15.0	
	5:00 PM	NA	4.1	15.0	
	6:00 PM	NA	4.0	15.0	
	7:00 PM	NA	4.0	15.0	
	8:00 PM	NA	3.9	15.0	
	9:00 PM	NA	3.9	15.0	
	10:00 PM	NA	3.9	15.0	
	11:00 PM	NA	3.9	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
11/26/2007	12:00 AM	NA	4.0	15.0	
	1:00 AM	NA	4.1	15.0	
	2:00 AM	NA	4.0	15.0	
	3:00 AM	NA	4.1	15.0	
	4:00 AM	NA	4.1	15.0	
	5:00 AM	NA	4.2	15.0	
	6:00 AM	NA	4.2	15.0	
	7:00 AM	NA	4.2	15.0	
	8:00 AM	NA	4.3	15.0	
	9:00 AM	NA	4.2	15.0	
	10:00 AM	NA	4.1	15.0	
	11:00 AM	NA	4.0	15.0	
	12:00 PM	NA	3.8	15.0	
	1:00 PM	NA	3.7	15.0	
	2:00 PM	NA	3.6	15.0	
	3:00 PM	NA	3.5	15.0	
	4:00 PM	NA	3.5	15.0	
	5:00 PM	NA	3.6	15.0	
	6:00 PM	NA	3.4	15.0	
	7:00 PM	NA	3.5	15.0	
	8:00 PM	NA	3.7	15.0	
	9:00 PM	NA	3.5	15.0	
	10:00 PM	NA	3.5	15.0	
	11:00 PM	NA	3.7	15.0	
11/27/2007	12:00 AM	NA	3.8	15.0	
	1:00 AM	NA	3.7	15.0	
	2:00 AM	NA	4.0	15.0	
	3:00 AM	NA	4.0	15.0	
	4:00 AM	NA	4.1	15.0	
	5:00 AM	NA	4.2	15.0	
	6:00 AM	NA	4.5	15.0	
	7:00 AM	NA	4.7	15.0	
	8:00 AM	NA	4.7	15.0	Begin excavating the western half of Zone A
	9:00 AM	NA	4.7	15.0	
	10:00 AM	NA	7.9	15.0	
	11:00 AM	NA	6.7	15.0	
	12:00 PM	NA	6.0	15.0	
	1:00 PM	NA	7.6	15.0	End Excavation. No additional in-water work.
	2:00 PM	NA	7.1	15.0	
	3:00 PM	NA	8.4	15.0	
	4:00 PM	NA	6.6	15.0	
	5:00 PM	NA	5.4	15.0	
	6:00 PM	NA	4.6	15.0	4:30pm - Leave site.
	7:00 PM	NA	4.3	15.0	
	8:00 PM	NA	4.1	15.0	
	9:00 PM	NA	3.8	15.0	
	10:00 PM	NA	3.7	15.0	
	11:00 PM	NA	3.7	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
11/28/2007	12:00 AM	NA	3.6	15.0	
	1:00 AM	NA	3.8	15.0	
	2:00 AM	NA	3.7	15.0	
	3:00 AM	NA	3.9	15.0	
	4:00 AM	NA	3.8	15.0	
	5:00 AM	NA	3.8	15.0	
	6:00 AM	NA	3.8	15.0	
	7:00 AM	NA	3.8	15.0	
	8:00 AM	NA	3.9	15.0	No in-water work conducted.
	9:00 AM	NA	3.9	15.0	
	10:00 AM	NA	3.7	15.0	
	11:00 AM	NA	3.7	15.0	
	12:00 PM	NA	3.6	15.0	
	1:00 PM	NA	3.7	15.0	
	2:00 PM	NA	3.6	15.0	
	3:00 PM	NA	3.6	15.0	
	4:00 PM	NA	3.7	15.0	
	5:00 PM	NA	3.8	15.0	
	6:00 PM	NA	4.1	15.0	
	7:00 PM	NA	4.2	15.0	
	8:00 PM	NA	4.5	15.0	
	9:00 PM	NA	4.6	15.0	
	10:00 PM	NA	4.7	15.0	
	11:00 PM	NA	4.4	15.0	
11/29/2007	12:00 AM	NA	4.7	15.0	
	1:00 AM	NA	4.7	15.0	
	2:00 AM	NA	4.8	15.0	
	3:00 AM	NA	4.8	15.0	
	4:00 AM	NA	5.1	15.0	
	5:00 AM	NA	5.0	15.0	
	6:00 AM	NA	5.1	15.0	
	7:00 AM	NA	5.2	15.0	
	8:00 AM	NA	5.1	15.0	No excavation conducted. Begin backfilling western end of Area A
	9:00 AM	NA	4.9	15.0	
	10:00 AM	NA	4.6	15.0	
	11:00 AM	NA	4.5	15.0	
	12:00 PM	NA	4.6	15.0	
	1:00 PM				Units removed for maintenance and calibration.
	2:00 PM				
	3:00 PM				
	4:00 PM	2.7	4.1	15.0	4:30 - leave site.
	5:00 PM	2.7	3.2	15.0	
	6:00 PM	2.7	3.1	15.0	
	7:00 PM	2.7	3.1	15.0	
	8:00 PM	2.9	3.1	15.0	
	9:00 PM	2.8	3.0	15.0	
	10:00 PM	2.9	3.0	15.0	
	11:00 PM	3.0	3.0	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
11/30/2007	12:00 AM	3.0	3.0	15.0	
	1:00 AM	3.0	3.2	15.0	
	2:00 AM	3.0	3.2	15.0	
	3:00 AM	3.0	3.1	15.0	
	4:00 AM	3.1	3.2	15.0	
	5:00 AM	3.0	3.1	15.0	
	6:00 AM	3.2	3.2	15.0	
	7:00 AM	3.2	3.2	15.0	
	8:00 AM	3.2	3.2	15.0	No excavation conducted. Continue backfilling western end of Area A
	9:00 AM	3.2	3.2	15.0	
	10:00 AM	3.2	3.3	15.0	
	11:00 AM	3.2	3.3	15.0	
	12:00 PM	3.1	3.3	15.0	
	1:00 PM	3.1	3.3	15.0	
	2:00 PM	3.1	3.2	15.0	
	3:00 PM	3.0	3.2	15.0	
	4:00 PM	3.1	3.5	15.0	4:30 - leave site for the weekend.
	5:00 PM	3.1	3.7	15.0	
	6:00 PM	3.1	3.7	15.0	
	7:00 PM	3.1	3.3	15.0	
	8:00 PM	3.1	3.1	15.0	
	9:00 PM	3.1	3.2	15.0	
	10:00 PM	3.2	3.2	15.0	
	11:00 PM	3.3	3.2	15.0	
12/1/2007	12:00 AM	3.3	3.2	15.0	
	1:00 AM	3.4	3.3	15.0	
	2:00 AM	3.5	3.4	15.0	
	3:00 AM	3.5	3.4	15.0	
	4:00 AM	3.5	3.5	15.0	
	5:00 AM	3.7	3.5	15.0	
	6:00 AM	3.8	3.6	15.0	
	7:00 AM	3.8	3.5	15.0	
	8:00 AM	3.7	3.6	15.0	
	9:00 AM	3.7	3.6	15.0	
	10:00 AM	3.7	3.7	15.0	
	11:00 AM	3.6	4.8	15.0	
	12:00 PM	3.4	11.1	15.0	
	1:00 PM	3.3	4.2	15.0	
	2:00 PM	3.5	5.9	15.0	
	3:00 PM	3.5	5.8	15.0	
	4:00 PM	3.6	5.3	15.0	
	5:00 PM	3.4	3.7	15.0	
	6:00 PM	3.4	3.4	15.0	
	7:00 PM	3.3	3.4	15.0	
	8:00 PM	3.3	3.3	15.0	
	9:00 PM	3.3	3.3	15.0	
	10:00 PM	3.3	3.4	15.0	
	11:00 PM	3.3	3.2	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
12/2/2007	12:00 AM	3.2	3.2	15.0	
	1:00 AM	3.2	3.2	15.0	
	2:00 AM	3.3	3.1	15.0	
	3:00 AM	3.3	3.2	15.0	
	4:00 AM	3.3	3.3	15.0	
	5:00 AM	3.3	3.3	15.0	
	6:00 AM	3.3	3.2	15.0	
	7:00 AM	3.3	3.2	15.0	
	8:00 AM	3.3	3.3	15.0	
	9:00 AM	3.3	3.3	15.0	
	10:00 AM	3.3	3.4	15.0	
	11:00 AM	3.2	3.3	15.0	
	12:00 PM	3.2	3.3	15.0	
	1:00 PM	3.2	3.3	15.0	
	2:00 PM	4.1	5.1	15.0	
	3:00 PM	3.9	4.5	15.0	
	4:00 PM	4.2	5.2	15.0	
	5:00 PM	3.9	4.6	15.0	
	6:00 PM	3.5	3.9	15.0	
	7:00 PM	3.5	3.9	15.0	
	8:00 PM	3.6	4.0	15.0	
	9:00 PM	3.8	4.1	15.0	
	10:00 PM	4.3	4.4	15.0	
	11:00 PM	4.9	4.9	15.0	
12/3/2007	12:00 AM	5.4	5.5	15.0	
	1:00 AM	6.0	6.5	15.0	
	2:00 AM	6.9	7.0	15.0	
	3:00 AM	7.8	7.9	15.6	
	4:00 AM	8.7	8.9	17.3	
	5:00 AM	9.7	9.9	19.4	
	6:00 AM	10.5	10.4	21.0	
	7:00 AM	10.1	10.2	20.2	
	8:00 AM	9.6	9.9	19.2	No excavation conducted. Continue backfilling western end of Area A
	9:00 AM	8.9	9.9	17.8	
	10:00 AM	8.0	10.0	16.0	
	11:00 AM	7.3	9.8	15.0	
	12:00 PM	6.7	9.0	15.0	
	1:00 PM	5.9	6.9	15.0	
	2:00 PM	5.4	5.8	15.0	
	3:00 PM	5.0	5.5	15.0	
	4:00 PM	4.5	5.1	15.0	4:30 - leave site.
	5:00 PM	4.3	4.3	15.0	
	6:00 PM	4.1	4.1	15.0	
	7:00 PM	4.1	3.9	15.0	
	8:00 PM	3.9	3.9	15.0	
	9:00 PM	3.9	3.8	15.0	
	10:00 PM	3.9	3.7	15.0	
	11:00 PM	3.8	3.8	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
12/4/2007	12:00 AM	3.7	3.7	15.0	
	1:00 AM	3.7	3.6	15.0	
	2:00 AM	3.6	3.5	15.0	
	3:00 AM	3.5	3.6	15.0	
	4:00 AM	3.5	3.5	15.0	
	5:00 AM	3.4	3.4	15.0	
	6:00 AM	3.4	3.4	15.0	
	7:00 AM	3.3	3.2	15.0	
	8:00 AM	3.3	3.1	15.0	Move silt curtain to the next section of Area A.
	9:00 AM	3.2	3.1	15.0	
	10:00 AM	3.2	13.1	15.0	
	11:00 AM	3.2	4.6	15.0	Begin excavating the eastern end of Area A, working from west to east.
	12:00 PM	3.0	4.0	15.0	
	1:00 PM	2.8	3.4	15.0	
	2:00 PM	2.7	3.4	15.0	
	3:00 PM	2.8	3.2	15.0	
	4:00 PM	2.7	3.5	15.0	4:30 - end excavation, leave site.
	5:00 PM	2.8	3.6	15.0	
	6:00 PM	2.7	3.5	15.0	
	7:00 PM	2.8	0.0	15.0	Downstream turbidity meter memory full
	8:00 PM	2.7	0.0	15.0	
	9:00 PM	2.8	0.0	15.0	
	10:00 PM	3.0	0.0	15.0	
	11:00 PM	3.2	0.0	15.0	
12/5/2007	12:00 AM	3.3	0.0	15.0	
	1:00 AM	3.6	0.0	15.0	
	2:00 AM	3.7	0.0	15.0	
	3:00 AM	3.8	0.0	15.0	
	4:00 AM	3.9	0.0	15.0	
	5:00 AM	4.0	0.0	15.0	
	6:00 AM	4.0	0.0	15.0	
	7:00 AM	3.9	0.0	15.0	
	8:00 AM	3.9	0.0	15.0	Continue excavation in eastern end of Area A.
	9:00 AM	3.9	0.0	15.0	
	10:00 AM	NA	NA	15.0	Units removed for maintenance and calibration.
	11:00 AM	NA	NA	15.0	
	12:00 PM	NA	NA	15.0	
	1:00 PM	NA	NA	15.0	
	2:00 PM	3.6	6.2	15.0	
	3:00 PM	3.0	5.4	15.0	3:30 - leave site
	4:00 PM	3.7	4.7	15.0	
	5:00 PM	3.2	6.7	15.0	
	6:00 PM	3.3	5.0	15.0	
	7:00 PM	3.2	4.3	15.0	
	8:00 PM	2.9	3.8	15.0	
	9:00 PM	4.4	3.6	15.0	
	10:00 PM	5.1	3.4	15.0	
	11:00 PM	3.0	3.7	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
12/6/2007	12:00 AM	3.1	3.5	15.0	
	1:00 AM	3.1	3.6	15.0	
	2:00 AM	3.1	3.4	15.0	
	3:00 AM	3.2	3.5	15.0	
	4:00 AM	3.3	3.6	15.0	
	5:00 AM	3.3	3.6	15.0	
	6:00 AM	NA	3.6	15.0	Tree leaves on Upstream Turbidity Probe. 8:00 - Continue excavating East Area A
	7:00 AM	NA	3.7	15.0	
	8:00 AM	NA	3.6	15.0	
	9:00 AM	NA	3.5	15.0	
	10:00 AM	NA	4.5	15.0	
	11:00 AM	7.9	4.7	15.7	
	12:00 PM	3.4	5.6	15.0	Complete excavation in East Area A. Collect samples. No further excavation.
	1:00 PM	2.9	6.2	15.0	
	2:00 PM	3.3	4.1	15.0	
	3:00 PM	3.5	4.2	15.0	3:30 - leave site
	4:00 PM	3.2	3.8	15.0	
	5:00 PM	3.1	3.9	15.0	
	6:00 PM	3.4	3.6	15.0	
	7:00 PM	2.8	3.6	15.0	
	8:00 PM	2.6	3.3	15.0	
	9:00 PM	2.7	3.3	15.0	
	10:00 PM	3.3	3.5	15.0	
	11:00 PM	2.9	3.4	15.0	
12/7/2007	12:00 AM	2.9	3.4	15.0	
	1:00 AM	2.9	3.3	15.0	
	2:00 AM	3.1	3.5	15.0	
	3:00 AM	3.0	3.4	15.0	
	4:00 AM	3.2	3.5	15.0	
	5:00 AM	3.0	3.3	15.0	
	6:00 AM	2.9	3.5	15.0	
	7:00 AM	3.0	3.4	15.0	
	8:00 AM	2.9	3.4	15.0	No in-water work conducted. Awaiting sample results.
	9:00 AM	3.1	3.4	15.0	
	10:00 AM	3.0	3.5	15.0	
	11:00 AM	3.2	3.5	15.0	
	12:00 PM	3.3	3.3	15.0	
	1:00 PM	3.1	3.1	15.0	
	2:00 PM	3.2	3.0	15.0	
	3:00 PM	2.9	3.0	15.0	3:30 - leave site for the weekend.
	4:00 PM	3.0	2.9	15.0	
	5:00 PM	3.0	2.9	15.0	
	6:00 PM	3.0	3.0	15.0	
	7:00 PM	3.0	3.1	15.0	
	8:00 PM	2.8	2.9	15.0	
	9:00 PM	2.8	3.0	15.0	
	10:00 PM	3.9	2.9	15.0	
	11:00 PM	5.2	3.2	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
12/8/2007	12:00 AM	4.2	3.1	15.0	
	1:00 AM	4.1	3.1	15.0	
	2:00 AM	4.8	3.2	15.0	
	3:00 AM	5.5	3.3	15.0	
	4:00 AM	5.3	3.2	15.0	
	5:00 AM	3.5	3.4	15.0	
	6:00 AM	3.6	3.4	15.0	
	7:00 AM	3.8	3.4	15.0	
	8:00 AM	3.4	3.4	15.0	
	9:00 AM	3.5	3.3	15.0	
	10:00 AM	3.4	3.3	15.0	
	11:00 AM	3.2	3.3	15.0	
	12:00 PM	3.3	3.3	15.0	
	1:00 PM	4.3	3.2	15.0	
	2:00 PM	5.5	3.5	15.0	
	3:00 PM	3.5	3.5	15.0	
	4:00 PM	3.5	3.5	15.0	
	5:00 PM	3.1	3.2	15.0	
	6:00 PM	2.7	3.0	15.0	
	7:00 PM	2.8	3.0	15.0	
	8:00 PM	2.8	2.9	15.0	
	9:00 PM	2.8	2.9	15.0	
	10:00 PM	2.8	3.0	15.0	
	11:00 PM	2.9	3.0	15.0	
12/9/2007	12:00 AM	2.9	3.0	15.0	
	1:00 AM	2.8	3.0	15.0	
	2:00 AM	2.9	3.1	15.0	
	3:00 AM	3.1	3.1	15.0	
	4:00 AM	3.1	3.3	15.0	
	5:00 AM	3.2	3.3	15.0	
	6:00 AM	3.1	3.5	15.0	
	7:00 AM	3.1	3.4	15.0	
	8:00 AM	3.1	3.3	15.0	
	9:00 AM	3.1	3.4	15.0	
	10:00 AM	3.1	3.6	15.0	
	11:00 AM	3.1	3.4	15.0	
	12:00 PM	3.2	3.3	15.0	
	1:00 PM	3.0	3.0	15.0	
	2:00 PM	2.8	2.9	15.0	
	3:00 PM	2.8	3.2	15.0	
	4:00 PM	2.8	3.5	15.0	
	5:00 PM	3.2	3.0	15.0	
	6:00 PM	2.7	3.0	15.0	
	7:00 PM	2.7	2.9	15.0	
	8:00 PM	2.7	3.0	15.0	
	9:00 PM	2.6	2.9	15.0	
	10:00 PM	2.7	2.9	15.0	
	11:00 PM	2.7	2.9	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone A
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
12/10/2007	12:00 AM	2.7	3.1	15.0	
	1:00 AM	2.8	3.4	15.0	
	2:00 AM	2.7	3.5	15.0	
	3:00 AM	2.8	3.5	15.0	
	4:00 AM	2.8	3.2	15.0	
	5:00 AM	2.8	3.0	15.0	
	6:00 AM	2.7	3.0	15.0	
	7:00 AM	2.8	3.0	15.0	
	8:00 AM	2.8	2.9	15.0	No in-water work conducted. Awaiting sample results.
	9:00 AM	2.7	2.9	15.0	
	10:00 AM	2.9	3.1	15.0	
	11:00 AM	2.9	3.3	15.0	
	12:00 PM	3.1	3.0	15.0	
	1:00 PM	2.9	3.2	15.0	
	2:00 PM	2.6	2.9	15.0	
	3:00 PM	2.6	2.8	15.0	
	4:00 PM	2.4	2.7	15.0	
	5:00 PM	3.0	2.7	15.0	
	6:00 PM	3.5	2.8	15.0	
	7:00 PM	3.1	3.0	15.0	
	8:00 PM	3.5	3.0	15.0	
	9:00 PM	3.1	3.2	15.0	
	10:00 PM	2.7	3.2	15.0	
	11:00 PM	2.8	3.1	15.0	
12/11/2007	12:00 AM	2.9	3.3	15.0	
	1:00 AM	2.9	3.3	15.0	
	2:00 AM	2.9	3.3	15.0	
	3:00 AM	3.0	3.4	15.0	
	4:00 AM	3.1	3.4	15.0	
	5:00 AM	3.2	3.5	15.0	
	6:00 AM	3.1	3.6	15.0	
	7:00 AM	3.5	3.7	15.0	
	8:00 AM	3.2	3.6	15.0	No excavation conducted. Placed clay fill and rip-rap in excavated east end of Area A.
	9:00 AM	3.3	3.6	15.0	
	10:00 AM	2.9	3.4	15.0	
	11:00 AM	2.9	4.2	15.0	
	12:00 PM	3.0	4.6	15.0	
	1:00 PM	2.8	4.7	15.0	
	2:00 PM	2.8	3.9	15.0	
	3:00 PM	2.9	4.9	15.0	3:30 - leave site
	4:00 PM	4.7	6.1	15.0	
	5:00 PM	4.5	7.1	15.0	
	6:00 PM	3.9	4.3	15.0	
	7:00 PM	4.6	3.3	15.0	
	8:00 PM	7.2	3.2	15.0	
	9:00 PM	6.0	4.2	15.0	
	10:00 PM	10.3	4.2	20.5	
	11:00 PM	5.2	5.6	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
12/12/2007	12:00 AM	5.8	5.8	15.0	
	1:00 AM	6.3	8.7	15.0	
	2:00 AM	5.1	6.6	15.0	
	3:00 AM	5.7	7.4	15.0	
	4:00 AM	7.5	8.6	15.0	
	5:00 AM	7.4	12.9	15.0	
	6:00 AM	7.6	7.9	15.1	
	7:00 AM	8.8	9.9	17.7	
	8:00 AM	10.2	11.1	20.3	Excavate additional material from area around sample PM-SD 13
	9:00 AM	12.4	12.0	24.9	End excavation - begin backfilling the area.
	10:00 AM	13.6	10.9	27.1	
	11:00 AM	19.4	12.3	38.9	Finish backfilling east end of Area A. Move turbidity meters and turbidity curtains to Area B.
	12:00 PM	11.1	12.5	22.2	
	1:00 PM	4.9	10.1	15.0	Begin excavation in Area B.
	2:00 PM	5.9	12.8	15.0	
	3:00 PM	4.6	13.6	15.0	3:30 - leave site
	4:00 PM	5.1	16.2	15.0	
	5:00 PM	4.3	9.5	15.0	
	6:00 PM	3.7	8.3	15.0	
	7:00 PM	3.4	5.3	15.0	
	8:00 PM	3.2	4.6	15.0	
	9:00 PM	3.3	5.7	15.0	
	10:00 PM	3.5	4.4	15.0	
	11:00 PM	3.5	7.2	15.0	
12/13/2007	12:00 AM	3.5	61.9	15.0	
	1:00 AM	3.2	5.3	15.0	
	2:00 AM	3.4	5.7	15.0	
	3:00 AM	3.3	5.4	15.0	
	4:00 AM	3.3	4.8	15.0	
	5:00 AM	3.3	4.5	15.0	
	6:00 AM	3.2	5.1	15.0	
	7:00 AM	3.1	3.9	15.0	
	8:00 AM	3.0	6.5	15.0	Begin excavation in west Area B.
	9:00 AM	2.9	11.0	15.0	Finish excavation in west Area B.
	10:00 AM	2.9	9.8	15.0	
	11:00 AM	2.7	6.7	15.0	Collect confirmation samples from west Area B.
	12:00 PM	2.4	4.5	15.0	
	1:00 PM	2.4	13.9	15.0	
	2:00 PM	2.4	7.9	15.0	
	3:00 PM	2.1	5.3	15.0	3:30 - leave site
	4:00 PM	2.1	3.6	15.0	
	5:00 PM	2.1	8.8	15.0	
	6:00 PM	2.0	4.4	15.0	
	7:00 PM	2.0	5.9	15.0	
	8:00 PM	1.9	4.8	15.0	
	9:00 PM	2.0	3.2	15.0	
	10:00 PM	2.0	5.9	15.0	
	11:00 PM	2.2	10.8	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
12/14/2007	12:00 AM	2.3	5.7	15.0	
	1:00 AM	2.2	49.9	15.0	
	2:00 AM	2.5	8.3	15.0	
	3:00 AM	2.3	21.9	15.0	
	4:00 AM	2.5	4.6	15.0	
	5:00 AM	2.5	6.7	15.0	
	6:00 AM	2.4	4.3	15.0	
	7:00 AM	2.5	5.7	15.0	
	8:00 AM	2.5	5.7	15.0	No in-water activities. Performed miscellaneous site/equipment maintenance tasks
	9:00 AM	2.6	11.5	15.0	
	10:00 AM	2.4	7.8	15.0	
	11:00 AM	2.3	3.4	15.0	
	12:00 PM	2.3	6.4	15.0	
	1:00 PM	2.2	4.3	15.0	
	2:00 PM	2.0	46.9	15.0	
	3:00 PM	2.0	2.9	15.0	3:30 - leave site for the weekend.
	4:00 PM	1.9	5.3	15.0	
	5:00 PM	2.0	7.3	15.0	
	6:00 PM	2.0	2.9	15.0	
	7:00 PM	2.1	3.2	15.0	
	8:00 PM	2.1	9.7	15.0	
	9:00 PM	2.2	6.9	15.0	
	10:00 PM	2.2	5.2	15.0	
	11:00 PM	2.3	67.4	15.0	
12/15/2007	12:00 AM	2.5	3.8	15.0	
	1:00 AM	2.4	9.5	15.0	
	2:00 AM	2.7	6.0	15.0	
	3:00 AM	2.7	5.6	15.0	
	4:00 AM	2.7	5.0	15.0	
	5:00 AM	2.7	6.0	15.0	
	6:00 AM	2.9	7.5	15.0	
	7:00 AM	2.8	8.0	15.0	
	8:00 AM	2.9	25.2	15.0	
	9:00 AM	2.8	4.3	15.0	
	10:00 AM	2.8	3.9	15.0	
	11:00 AM	2.6	3.8	15.0	
	12:00 PM	2.5	3.6	15.0	
	1:00 PM	2.4	3.8	15.0	
	2:00 PM	2.5	3.4	15.0	
	3:00 PM	2.3	8.7	15.0	
	4:00 PM	2.3	4.2	15.0	
	5:00 PM	2.3	4.9	15.0	
	6:00 PM	2.5	155.7	15.0	
	7:00 PM	2.3	4.1	15.0	
	8:00 PM	2.1	3.0	15.0	
	9:00 PM	2.3	6.7	15.0	
	10:00 PM	2.3	3.1	15.0	
	11:00 PM	2.4	3.1	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
12/16/2007	12:00 AM	2.6	3.2	15.0	
	1:00 AM	2.4	3.2	15.0	
	2:00 AM	2.4	3.2	15.0	
	3:00 AM	2.4	4.0	15.0	
	4:00 AM	2.7	3.4	15.0	
	5:00 AM	2.5	4.2	15.0	
	6:00 AM	2.5	4.1	15.0	
	7:00 AM	2.9	5.6	15.0	
	8:00 AM	2.5	3.5	15.0	
	9:00 AM	2.7	3.6	15.0	
	10:00 AM	2.7	4.2	15.0	
	11:00 AM	2.5	3.4	15.0	
	12:00 PM	2.5	3.2	15.0	
	1:00 PM	2.6	3.4	15.0	
	2:00 PM	2.9	3.6	15.0	
	3:00 PM	2.7	4.1	15.0	
	4:00 PM	2.8	4.0	15.0	
	5:00 PM	2.8	4.6	15.0	
	6:00 PM	3.0	4.0	15.0	
	7:00 PM	2.6	3.2	15.0	
	8:00 PM	2.3	3.2	15.0	
	9:00 PM	2.4	3.1	15.0	
	10:00 PM	2.2	4.2	15.0	
	11:00 PM	2.3	3.1	15.0	
12/17/2007	12:00 AM	2.4	3.2	15.0	
	1:00 AM	2.4	3.9	15.0	
	2:00 AM	2.3	5.4	15.0	
	3:00 AM	2.6	4.1	15.0	
	4:00 AM	2.7	4.1	15.0	
	5:00 AM	2.6	4.1	15.0	
	6:00 AM	2.5	5.1	15.0	
	7:00 AM	2.4	4.3	15.0	
	8:00 AM	2.4	3.2	15.0	Return to the site
	9:00 AM	2.8	4.5	15.0	
	10:00 AM	2.8	5.9	15.0	
	11:00 AM	2.5	5.5	15.0	
	12:00 PM	2.5	4.5	15.0	
	1:00 PM	2.9	5.9	15.0	Receive confirmation sample results - begin backfilling excavated west Area B.
	2:00 PM	2.6	3.3	15.0	
	3:00 PM	2.5	7.3	15.0	3:30 - leave site
	4:00 PM	2.9	5.0	15.0	
	5:00 PM	3.0	3.7	15.0	
	6:00 PM	3.2	5.2	15.0	
	7:00 PM	2.7	5.0	15.0	
	8:00 PM	2.1	7.1	15.0	
	9:00 PM	2.2	3.9	15.0	
	10:00 PM	2.2	3.6	15.0	
	11:00 PM	2.3	5.4	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
12/18/2007	12:00 AM	2.3	4.0	15.0	
	1:00 AM	2.4	5.4	15.0	
	2:00 AM	2.3	3.8	15.0	
	3:00 AM	2.4	51.7	15.0	
	4:00 AM	2.3	8.7	15.0	
	5:00 AM	2.4	4.4	15.0	
	6:00 AM	2.2	4.8	15.0	
	7:00 AM	2.3	4.2	15.0	
	8:00 AM	2.5	6.9	15.0	Continue backfilling west Area B.
	9:00 AM	2.4	6.0	15.0	Finish backfilling west Area B. Move turbidity meters and silt curtain to next section of Area B.
	10:00 AM	2.7	6.9	15.0	
	11:00 AM	2.8	4.9	15.0	Begin excavation in middle section of Area B.
	12:00 PM	2.6	7.5	15.0	
	1:00 PM	3.3	9.7	15.0	
	2:00 PM	2.5	5.0	15.0	
	3:00 PM	2.3	10.0	15.0	3:30 - leave site
	4:00 PM	2.5	12.8	15.0	
	5:00 PM	2.7	6.1	15.0	
	6:00 PM	2.4	10.8	15.0	
	7:00 PM	2.2	10.9	15.0	
	8:00 PM	2.1	6.6	15.0	
	9:00 PM	2.5	14.1	15.0	
	10:00 PM	2.0	4.5	15.0	
	11:00 PM	2.1	8.6	15.0	
12/19/2007	12:00 AM	2.1	164.5	15.0	
	1:00 AM	2.0	3.8	15.0	
	2:00 AM	2.1	6.8	15.0	
	3:00 AM	2.0	8.6	15.0	
	4:00 AM	2.0	9.2	15.0	
	5:00 AM	2.1	4.7	15.0	
	6:00 AM	2.0	8.1	15.0	
	7:00 AM	2.1	4.9	15.0	
	8:00 AM	2.0	11.3	15.0	Continue excavation in middle section of Area B.
	9:00 AM	2.3	3.5	15.0	
	10:00 AM	2.2	23.9	15.0	
	11:00 AM	2.4	25.2	15.0	Slow excavation activities to minimize turbidity
	12:00 PM	2.1	30.0	15.0	
	1:00 PM	2.1	8.6	15.0	
	2:00 PM	1.9	4.9	15.0	
	3:00 PM	2.0	8.3	15.0	3:30 - Leave site
	4:00 PM	2.4	10.1	15.0	
	5:00 PM	2.0	4.7	15.0	
	6:00 PM	2.2	8.4	15.0	
	7:00 PM	2.2	14.1	15.0	
	8:00 PM	2.4	24.0	15.0	
	9:00 PM	7.1	9.5	15.0	
	10:00 PM	2.7	5.8	15.0	
	11:00 PM	1009.4	11.3	2018.8	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
12/20/2007	12:00 AM	498.0	11.7	996.1	
	1:00 AM	465.8	10.6	931.5	
	2:00 AM	3.0	11.4	15.0	
	3:00 AM	3.4	7.1	15.0	
	4:00 AM	4.3	14.1	15.0	
	5:00 AM	3.0	47.6	15.0	
	6:00 AM	3.0	12.9	15.0	
	7:00 AM	3.1	12.8	15.0	
	8:00 AM	3.6	9.0	15.0	Collect confirmation samples from middle section of Area B.
	9:00 AM	3.2	5.4	15.0	9:30 - finish sample collection. No other excavation work - awaiting sample results.
	10:00 AM	3.8	18.8	15.0	No in-water activities. High turbidity is not associated with removal activities.
	11:00 AM	4.5	128.7	15.0	
	12:00 PM	3.8	15.6	15.0	
	1:00 PM	4.3	11.4	15.0	
	2:00 PM	4.0	9.3	15.0	
	3:00 PM	4.0	12.6	15.0	3:30 - leave site for holiday vacation.
	4:00 PM	99.9	9.6	199.7	
	5:00 PM	4.2	58.4	15.0	
	6:00 PM	466.1	24.8	932.1	
	7:00 PM	3.8	260.9	15.0	
	8:00 PM	3.6	34.6	15.0	
	9:00 PM	21.0	4.1	42.0	
	10:00 PM	3.5	13.5	15.0	
	11:00 PM	179.9	7.7	359.8	
Removal activities were suspended in observance of the winter holidays from December 20th, 2007 to January 2nd, 2008.					
12/21/2007	12:00 AM	1382.8	58.2	2765.6	Work suspended for company holiday
	1:00 AM	1836.3	38.0	3672.6	
	2:00 AM	1753.6	448.5	3507.2	
	3:00 AM	1178.2	9.1	2356.4	
	4:00 AM	853.6	118.1	1707.2	
	5:00 AM	3.6	42.2	15.0	
	6:00 AM	4.6	190.8	15.0	
	7:00 AM	3.7	14.2	15.0	
	8:00 AM	3.6	23.9	15.0	
	9:00 AM	3.8	15.9	15.0	
	10:00 AM	4.0	17.2	15.0	
	11:00 AM	61.6	49.4	123.2	
	12:00 PM	3.6	4.5	15.0	
	1:00 PM	4.9	16.2	15.0	
	2:00 PM	7.0	11.7	15.0	
	3:00 PM	3.7	9.9	15.0	
	4:00 PM	13.3	10.2	26.7	
	5:00 PM	4.6	9.8	15.0	
	6:00 PM	275.4	73.5	550.8	
	7:00 PM	1067.1	6.1	2134.3	
	8:00 PM	1584.1	44.3	3168.3	
	9:00 PM	17.7	15.1	35.5	
	10:00 PM	17.1	7.2	34.1	
	11:00 PM	938.8	13.2	1877.5	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
12/22/2007	12:00 AM	323.8	25.6	647.6	Work suspended for company holiday
	1:00 AM	3.3	11.8	15.0	
	2:00 AM	3.6	14.7	15.0	
	3:00 AM	3.5	24.1	15.0	
	4:00 AM	3.4	17.4	15.0	
	5:00 AM	3.5	10.4	15.0	
	6:00 AM	3.6	12.3	15.0	
	7:00 AM	3.6	5.3	15.0	
	8:00 AM	4.1	7.0	15.0	
	9:00 AM	5.4	8.4	15.0	
	10:00 AM	5.3	10.1	15.0	
	11:00 AM	551.9	8.0	1103.8	
	12:00 PM	474.4	7.6	948.9	
	1:00 PM	18.1	7.2	36.1	
	2:00 PM	8.2	7.0	16.4	
	3:00 PM	11.4	11.5	22.8	
	4:00 PM	454.7	91.8	909.4	
	5:00 PM	4.4	5.5	15.0	
	6:00 PM	4.9	8.8	15.0	
	7:00 PM	4.2	55.5	15.0	
	8:00 PM	7.4	6.7	15.0	
	9:00 PM	6.2	5.7	15.0	
	10:00 PM	5.1	10.4	15.0	
	11:00 PM	3.9	13.0	15.0	
12/23/2007	12:00 AM	4.9	8.9	15.0	Work suspended for company holiday
	1:00 AM	4.9	8.0	15.0	
	2:00 AM	4.5	12.4	15.0	
	3:00 AM	4.7	89.6	15.0	
	4:00 AM	4.8	17.3	15.0	
	5:00 AM	4.8	61.3	15.0	
	6:00 AM	4.8	41.9	15.0	
	7:00 AM	7.9	18.3	15.7	
	8:00 AM	10.2	25.5	20.4	
	9:00 AM	6.2	54.0	15.0	
	10:00 AM	4.9	4.7	15.0	
	11:00 AM	4.7	9.3	15.0	
	12:00 PM	4.8	9.0	15.0	
	1:00 PM	4.6	11.8	15.0	
	2:00 PM	4.8	4.4	15.0	
	3:00 PM	5.2	4.9	15.0	
	4:00 PM	5.5	6.1	15.0	
	5:00 PM	5.4	51.8	15.0	
	6:00 PM	5.7	8.6	15.0	
	7:00 PM	6.4	9.3	15.0	
	8:00 PM	7.6	7.7	15.1	
	9:00 PM	8.1	11.7	16.3	
	10:00 PM	8.6	11.1	17.3	
	11:00 PM	8.2	15.8	16.4	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
12/24/2007	12:00 AM	7.7	12.0	15.5	Work suspended for company holiday
	1:00 AM	7.2	8.6	15.0	
	2:00 AM	6.6	14.5	15.0	
	3:00 AM	6.1	6.4	15.0	
	4:00 AM	6.0	7.7	15.0	
	5:00 AM	5.7	6.8	15.0	
	6:00 AM	5.5	9.2	15.0	
	7:00 AM	5.2	12.5	15.0	
	8:00 AM	4.9	9.9	15.0	
	9:00 AM	5.0	5.5	15.0	
	10:00 AM	4.7	7.1	15.0	
	11:00 AM	4.7	4.8	15.0	
	12:00 PM	4.5	5.1	15.0	
	1:00 PM	4.3	5.2	15.0	
	2:00 PM	4.0	6.4	15.0	
	3:00 PM	4.1	5.0	15.0	
	4:00 PM	3.8	4.7	15.0	
	5:00 PM	3.8	8.7	15.0	
	6:00 PM	3.7	9.6	15.0	
	7:00 PM	3.7	5.5	15.0	
	8:00 PM	3.5	9.7	15.0	
	9:00 PM	3.7	11.8	15.0	
	10:00 PM	3.5	6.7	15.0	
	11:00 PM	3.6	85.7	15.0	
12/25/2007	12:00 AM	3.6	7.7	15.0	Work suspended for company holiday
	1:00 AM	3.7	7.0	15.0	
	2:00 AM	3.7	6.4	15.0	
	3:00 AM	3.9	29.6	15.0	
	4:00 AM	3.9	6.8	15.0	
	5:00 AM	4.0	13.1	15.0	
	6:00 AM	4.0	46.4	15.0	
	7:00 AM	4.2	14.1	15.0	
	8:00 AM	4.4	6.2	15.0	
	9:00 AM	4.6	77.2	15.0	
	10:00 AM	4.3	10.1	15.0	
	11:00 AM	4.5	5.8	15.0	
	12:00 PM	4.2	4.9	15.0	
	1:00 PM	4.0	4.1	15.0	
	2:00 PM	3.9	3.9	15.0	
	3:00 PM	3.7	7.9	15.0	
	4:00 PM	4.2	4.8	15.0	
	5:00 PM	4.3	4.7	15.0	
	6:00 PM	4.8	4.2	15.0	
	7:00 PM	4.5	5.5	15.0	
	8:00 PM	4.0	3.5	15.0	
	9:00 PM	4.2	4.4	15.0	
	10:00 PM	4.4	4.8	15.0	
	11:00 PM	4.3	8.6	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
12/26/2007	12:00 AM	4.4	7.7	15.0	Work suspended for company holiday
	1:00 AM	4.9	11.0	15.0	
	2:00 AM	5.0	6.8	15.0	
	3:00 AM	4.6	6.8	15.0	
	4:00 AM	4.8	78.3	15.0	
	5:00 AM	4.8	7.2	15.0	
	6:00 AM	5.1	5.5	15.0	
	7:00 AM	5.3	10.1	15.0	
	8:00 AM	5.3	6.9	15.0	
	9:00 AM	5.3	6.2	15.0	
	10:00 AM	5.9	5.6	15.0	
	11:00 AM	5.8	5.0	15.0	
	12:00 PM	5.8	4.9	15.0	
	1:00 PM	5.7	7.0	15.0	
	2:00 PM	5.7	7.3	15.0	
	3:00 PM	7.4	10.8	15.0	
	4:00 PM	5.8	4.7	15.0	
	5:00 PM	5.6	7.3	15.0	
	6:00 PM	5.4	7.1	15.0	
	7:00 PM	5.1	4.7	15.0	
	8:00 PM	8.9	11.5	17.9	
	9:00 PM	6.8	5.5	15.0	
	10:00 PM	9.2	5.4	18.3	
	11:00 PM	10.4	5.3	20.8	
12/27/2007	12:00 AM	12.6	5.3	25.3	Work suspended for company holiday
	1:00 AM	542.4	6.3	1084.7	
	2:00 AM	1194.1	5.8	2388.1	
	3:00 AM	514.3	5.5	1028.6	
	4:00 AM	781.4	5.8	1562.8	
	5:00 AM	904.1	5.8	1808.3	
	6:00 AM	12.8	5.9	25.5	
	7:00 AM	864.5	6.1	1729.0	
	8:00 AM	603.4	5.9	1206.8	
	9:00 AM	463.4	5.8	926.8	
	10:00 AM	301.5	5.6	603.1	
	11:00 AM	87.3	5.2	174.6	
	12:00 PM	16.3	5.0	32.6	
	1:00 PM	552.5	4.6	1105.0	
	2:00 PM	555.2	4.4	1110.4	
	3:00 PM	685.9	4.4	1371.8	
	4:00 PM	414.4	4.4	828.7	
	5:00 PM	111.7	4.2	223.5	
	6:00 PM	174.9	4.1	349.9	
	7:00 PM	131.2	4.3	262.5	
	8:00 PM	550.8	4.5	1101.6	
	9:00 PM	466.1	4.8	932.1	
	10:00 PM	3.6	4.9	15.0	
	11:00 PM	5.2	5.5	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
12/28/2007	12:00 AM	5.5	5.8	15.0	Work suspended for company holiday
	1:00 AM	6.6	5.1	15.0	
	2:00 AM	5.3	5.1	15.0	
	3:00 AM	5.0	5.1	15.0	
	4:00 AM	8.0	5.1	16.0	
	5:00 AM	1213.6	4.9	2427.3	
	6:00 AM	1286.7	5.2	2573.4	
	7:00 AM	8.8	5.0	17.5	
	8:00 AM	6.4	5.0	15.0	
	9:00 AM	5.1	4.7	15.0	
	10:00 AM	4.5	4.5	15.0	
	11:00 AM	8.4	4.4	16.9	
	12:00 PM	7.5	4.1	15.0	
	1:00 PM	7.9	3.9	15.8	
	2:00 PM	6.3	3.7	15.0	
	3:00 PM	5.0	3.8	15.0	
	4:00 PM	3.7	3.7	15.0	
	5:00 PM	3.6	3.7	15.0	
	6:00 PM	3.5	3.9	15.0	
	7:00 PM	3.6	3.7	15.0	
	8:00 PM	3.8	4.0	15.0	
	9:00 PM	3.4	4.1	15.0	
	10:00 PM	3.6	5.0	15.0	
	11:00 PM	12.9	4.3	25.8	
12/29/2007	12:00 AM	3.7	4.1	15.0	Work suspended for company holiday
	1:00 AM	3.5	3.8	15.0	
	2:00 AM	3.6	3.9	15.0	
	3:00 AM	4.4	3.9	15.0	
	4:00 AM	4.2	3.8	15.0	
	5:00 AM	3.8	3.8	15.0	
	6:00 AM	3.6	4.0	15.0	
	7:00 AM	3.9	3.9	15.0	
	8:00 AM	3.5	3.8	15.0	
	9:00 AM	3.6	4.2	15.0	
	10:00 AM	3.5	4.2	15.0	
	11:00 AM	68.8	4.3	137.6	
	12:00 PM	3.6	4.3	15.0	
	1:00 PM	3.5	3.9	15.0	
	2:00 PM	3.8	3.8	15.0	
	3:00 PM	3.6	3.9	15.0	
	4:00 PM	3.8	4.0	15.0	
	5:00 PM	3.8	4.3	15.0	
	6:00 PM	3.5	3.8	15.0	
	7:00 PM	3.8	4.0	15.0	
	8:00 PM	3.5	4.6	15.0	
	9:00 PM	3.7	4.2	15.0	
	10:00 PM	3.7	4.7	15.0	
	11:00 PM	3.9	4.7	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
12/30/2007	12:00 AM	4.3	4.5	15.0	Work suspended for company holiday
	1:00 AM	4.3	4.6	15.0	
	2:00 AM	4.0	4.7	15.0	
	3:00 AM	4.2	4.7	15.0	
	4:00 AM	4.2	4.7	15.0	
	5:00 AM	4.3	4.8	15.0	
	6:00 AM	4.3	5.2	15.0	
	7:00 AM	4.4	4.9	15.0	
	8:00 AM	17.4	4.9	34.7	
	9:00 AM	4.6	4.9	15.0	
	10:00 AM	4.4	6.3	15.0	
	11:00 AM	4.8	5.2	15.0	
	12:00 PM	4.8	5.1	15.0	
	1:00 PM	5.0	4.9	15.0	
	2:00 PM	4.5	4.6	15.0	
	3:00 PM	5.1	4.9	15.0	
	4:00 PM	4.2	4.7	15.0	
	5:00 PM	4.1	4.5	15.0	
	6:00 PM	4.2	4.6	15.0	
	7:00 PM	4.2	4.9	15.0	
	8:00 PM	6.5	4.8	15.0	
	9:00 PM	4.0	4.7	15.0	
	10:00 PM	4.1	5.3	15.0	
	11:00 PM	4.2	5.3	15.0	
12/31/2007	12:00 AM	4.3	4.7	15.0	Work suspended for company holiday
	1:00 AM	4.3	4.9	15.0	
	2:00 AM	4.3	4.9	15.0	
	3:00 AM	4.4	5.0	15.0	
	4:00 AM	4.3	5.0	15.0	
	5:00 AM	4.3	4.9	15.0	
	6:00 AM	4.3	4.9	15.0	
	7:00 AM	4.3	4.8	15.0	
	8:00 AM	4.4	4.8	15.0	
	9:00 AM	4.4	5.0	15.0	
	10:00 AM	4.5	5.8	15.0	
	11:00 AM	4.3	4.8	15.0	
	12:00 PM	4.1	4.5	15.0	
	1:00 PM	3.7	4.3	15.0	
	2:00 PM	3.9	4.3	15.0	
	3:00 PM	3.9	4.3	15.0	
	4:00 PM	3.8	4.0	15.0	
	5:00 PM	3.7	4.2	15.0	
	6:00 PM	3.5	4.0	15.0	
	7:00 PM	3.4	3.9	15.0	
	8:00 PM	3.6	4.3	15.0	
	9:00 PM	3.6	3.9	15.0	
	10:00 PM	3.7	4.0	15.0	
	11:00 PM	3.5	4.0	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
1/1/2008	12:00 AM	3.4	4.0	15.0	Work suspended for company holiday
	1:00 AM	3.3	3.9	15.0	
	2:00 AM	3.3	4.0	15.0	
	3:00 AM	3.4	3.8	15.0	
	4:00 AM	3.5	3.9	15.0	
	5:00 AM	3.4	3.9	15.0	
	6:00 AM	3.4	3.9	15.0	
	7:00 AM	5.9	4.0	15.0	
	8:00 AM	160.4	3.9	320.7	
	9:00 AM	477.2	4.1	954.3	
	10:00 AM	26.1	3.8	52.2	
	11:00 AM	9.8	3.7	19.5	
	12:00 PM	10.8	3.6	21.5	
	1:00 PM	5.9	3.5	15.0	
	2:00 PM	4.9	3.5	15.0	
	3:00 PM	5.5	3.5	15.0	
	4:00 PM	4.3	3.7	15.0	
	5:00 PM	4.1	3.5	15.0	
	6:00 PM	4.3	3.3	15.0	
	7:00 PM	4.2	3.5	15.0	
	8:00 PM	3.7	3.7	15.0	
	9:00 PM	3.7	3.5	15.0	
	10:00 PM	3.7	3.4	15.0	
	11:00 PM	3.9	3.3	15.0	
1/2/2008	12:00 AM	3.8	3.5	15.0	No work on-site - travel day.
	1:00 AM	3.8	3.3	15.0	
	2:00 AM	4.3	3.4	15.0	
	3:00 AM	4.0	3.4	15.0	
	4:00 AM	4.0	3.4	15.0	
	5:00 AM	3.8	3.5	15.0	
	6:00 AM	3.9	3.6	15.0	
	7:00 AM	28.3	3.5	56.6	
	8:00 AM	3.2	3.6	15.0	
	9:00 AM	3.3	3.5	15.0	
	10:00 AM	3.1	3.4	15.0	
	11:00 AM	3.3	3.3	15.0	
	12:00 PM	3.0	3.2	15.0	
	1:00 PM	2.7	3.2	15.0	
	2:00 PM	2.9	3.1	15.0	
	3:00 PM	3.0	3.3	15.0	
	4:00 PM	2.8	3.2	15.0	
	5:00 PM	2.6	3.0	15.0	
	6:00 PM	2.7	3.0	15.0	
	7:00 PM	2.6	2.9	15.0	
	8:00 PM	2.5	3.0	15.0	
	9:00 PM	2.6	2.9	15.0	
	10:00 PM	3.2	3.1	15.0	
	11:00 PM	3.7	3.1	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
1/3/2008	12:00 AM	2.7	3.0	15.0	
	1:00 AM	2.7	3.2	15.0	
	2:00 AM	2.6	3.0	15.0	
	3:00 AM	2.8	3.1	15.0	
	4:00 AM	2.9	3.1	15.0	
	5:00 AM	2.7	3.2	15.0	
	6:00 AM	2.9	3.1	15.0	
	7:00 AM	2.9	3.1	15.0	
	8:00 AM	2.7	3.1	15.0	Snow and cold weather slow work - warm-up equipment
	9:00 AM	3.1	3.2	15.0	Place backfill in middle section of Area B.
	10:00 AM	2.6	3.0	15.0	
	11:00 AM	2.7	2.9	15.0	
	12:00 PM	2.5	6.7	15.0	
	1:00 PM	2.8	11.3	15.0	Stop backfilling to receive and stockpile clay, stone and rip-rap fill deliveries
	2:00 PM	2.6	5.8	15.0	
	3:00 PM	2.6	13.9	15.0	3:30 - leave site
	4:00 PM	2.6	4.5	15.0	
	5:00 PM	2.6	3.5	15.0	
	6:00 PM	3.1	3.3	15.0	
	7:00 PM	2.4	3.2	15.0	
	8:00 PM	2.5	3.3	15.0	
	9:00 PM	2.6	3.0	15.0	
	10:00 PM	2.4	3.1	15.0	
	11:00 PM	2.6	3.1	15.0	
1/4/2008	12:00 AM	2.6	3.0	15.0	
	1:00 AM	2.7	3.1	15.0	
	2:00 AM	2.5	3.1	15.0	
	3:00 AM	2.8	3.1	15.0	
	4:00 AM	2.6	3.1	15.0	
	5:00 AM	2.7	3.1	15.0	
	6:00 AM	2.7	3.0	15.0	
	7:00 AM	2.5	3.1	15.0	
	8:00 AM	2.5	4.8	15.0	Continued backfilling middle section of Area B.
	9:00 AM	2.5	3.1	15.0	
	10:00 AM	2.6	3.3	15.0	
	11:00 AM	52.9	6.1	105.9	Finish backfilling middle section of Area B. Moved and repaired silt curtain. Removed turbidity meters for maintenance and calibration
	12:00 PM	3.6	8.2	15.0	Began excavating in east section of Area B.
	1:00 PM			15.0	
	2:00 PM			15.0	End excavation at 2:00 to help reinstall turbidity meters. No other in-water work.
	3:00 PM			15.0	
	4:00 PM			15.0	4:45 - leave site
	5:00 PM	1.4	2.2	15.0	
	6:00 PM	1.4	1.9	15.0	
	7:00 PM	1.6	1.9	15.0	
	8:00 PM	1.4	1.7	15.0	
	9:00 PM	1.5	1.9	15.0	
	10:00 PM	1.5	1.7	15.0	
	11:00 PM	1.5	1.6	15.0	
1/5/2008	12:00 AM	1.5	1.6	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
	1:00 AM	1.4	1.6	15.0	
	2:00 AM	1.5	1.7	15.0	
	3:00 AM	1.5	1.6	15.0	
	4:00 AM	1.5	1.5	15.0	
	5:00 AM	1.6	1.6	15.0	
	6:00 AM	1.6	1.7	15.0	
	7:00 AM	1.7	1.7	15.0	
	8:00 AM	1.6	1.6	15.0	Continue excavation of east section of Area B.
	9:00 AM	1.6	1.6	15.0	
	10:00 AM	1.5	93.5	15.0	
	11:00 AM	1.5	100.3	15.0	Increased turbidity - excavation stopped at 11:45
	12:00 PM	1.4	90.2	15.0	
	1:00 PM	1.2	20.5	15.0	Collect confirmation samples from east section of Area B.
	2:00 PM	1.2	30.6	15.0	
	3:00 PM	1.1	2.9	15.0	3:30 - leave site for weekend (Sunday)
	4:00 PM	1.1	2.0	15.0	
	5:00 PM	1.0	1.6	15.0	
	6:00 PM	1.2	1.5	15.0	
	7:00 PM	1.2	1.5	15.0	
	8:00 PM	1.2	1.5	15.0	
	9:00 PM	1.2	1.7	15.0	
	10:00 PM	1.2	1.6	15.0	
	11:00 PM	1.5	1.7	15.0	
1/6/2008	12:00 AM	1.5	1.8	15.0	
	1:00 AM	1.3	1.5	15.0	
	2:00 AM	1.4	1.6	15.0	
	3:00 AM	1.7	1.9	15.0	
	4:00 AM	1.7	2.1	15.0	
	5:00 AM	2.0	2.4	15.0	
	6:00 AM	2.3	2.4	15.0	
	7:00 AM	2.8	2.5	15.0	
	8:00 AM	2.4	2.5	15.0	
	9:00 AM	2.4	2.4	15.0	
	10:00 AM	2.5	2.3	15.0	
	11:00 AM	2.2	2.1	15.0	
	12:00 PM	2.0	2.8	15.0	
	1:00 PM	1.9	2.5	15.0	
	2:00 PM	2.2	5.8	15.0	
	3:00 PM	2.2	2.6	15.0	
	4:00 PM	2.4	2.5	15.0	
	5:00 PM	2.5	2.5	15.0	
	6:00 PM	2.5	2.5	15.0	
	7:00 PM	2.5	2.7	15.0	
	8:00 PM	2.6	2.7	15.0	
	9:00 PM	2.4	2.7	15.0	
	10:00 PM	2.6	2.6	15.0	
	11:00 PM	2.7	2.7	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
1/7/2008	12:00 AM	2.9	2.7	15.0	
	1:00 AM	2.8	3.0	15.0	
	2:00 AM	2.9	2.9	15.0	
	3:00 AM	3.0	3.0	15.0	
	4:00 AM	3.2	3.1	15.0	
	5:00 AM	4.3	3.5	15.0	
	6:00 AM	3.5	3.5	15.0	
	7:00 AM	4.5	3.5	15.0	
	8:00 AM	4.1	3.5	15.0	Awaiting sample results. No in-water activities. Managing residuals in the containment pad.
	9:00 AM	4.2	3.5	15.0	
	10:00 AM	3.6	3.2	15.0	
	11:00 AM	3.2	2.9	15.0	
	12:00 PM	3.1	2.6	15.0	
	1:00 PM	2.6	2.5	15.0	
	2:00 PM	2.4	2.4	15.0	
	3:00 PM	2.3	2.1	15.0	
	4:00 PM	2.3	2.1	15.0	
	5:00 PM	2.3	2.1	15.0	
	6:00 PM	2.0	2.0	15.0	
	7:00 PM	2.0	2.0	15.0	
	8:00 PM	2.2	2.1	15.0	
	9:00 PM	2.3	2.2	15.0	
	10:00 PM	12.7	15.2	25.4	
	11:00 PM	20.0	22.1	40.0	
1/8/2008	12:00 AM	10.9	10.8	21.8	
	1:00 AM	7.5	7.5	15.0	
	2:00 AM	7.9	7.5	15.7	
	3:00 AM	9.4	8.5	18.7	
	4:00 AM	11.5	16.2	23.0	
	5:00 AM	15.2	15.2	30.5	
	6:00 AM	15.3	18.5	30.7	
	7:00 AM	19.5	18.4	39.0	
	8:00 AM	26.0	24.2	52.0	Awaiting sample results. No in-water activities. Heavy rain - prepare for using water treatment system.
	9:00 AM	36.8	35.7	73.5	
	10:00 AM	42.1	40.3	84.2	
	11:00 AM	43.4	40.6	86.8	
	12:00 PM	46.8	40.5	93.6	
	1:00 PM	36.9	35.2	73.9	
	2:00 PM	36.5	32.4	73.0	
	3:00 PM	43.3	32.3	86.5	
	4:00 PM	28.6	27.4	57.3	
	5:00 PM	29.8	24.2	59.5	
	6:00 PM	27.6	24.3	55.2	
	7:00 PM	33.6	24.9	67.1	
	8:00 PM	24.6	24.0	49.3	
	9:00 PM	31.9	25.0	63.8	
	10:00 PM	30.7	140.5	61.3	
	11:00 PM	46.4	26.1	92.8	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
1/9/2008	12:00 AM	28.7	25.9	57.3	
	1:00 AM	82.9	24.9	165.9	
	2:00 AM	25.3	25.2	50.5	
	3:00 AM	25.1	24.1	50.1	
	4:00 AM	22.6	25.3	45.3	
	5:00 AM	27.1	18.9	54.1	
	6:00 AM	37.6	18.4	75.3	
	7:00 AM	20.3	16.3	40.6	
	8:00 AM	79.7	15.8	159.4	Awaiting sample results. No in-water activities. Set-up water treatment system. Pump water to frac tank.
	9:00 AM	962.3	14.5	1924.6	
	10:00 AM	751.7	12.4	1503.4	
	11:00 AM	12.9	12.7	25.8	
	12:00 PM	18.5	12.3	37.0	
	1:00 PM	11.5	11.4	23.0	
	2:00 PM	10.0	10.1	19.9	
	3:00 PM	9.1	12.1	18.2	
	4:00 PM	483.7	9.1	967.3	
	5:00 PM	8.6	8.5	17.2	
	6:00 PM	9.5	8.5	19.0	
	7:00 PM	9.2	8.8	18.3	
	8:00 PM	9.6	9.8	19.3	
	9:00 PM	10.1	10.1	20.2	
	10:00 PM	10.6	9.7	21.2	
	11:00 PM	10.8	10.2	21.6	
1/10/2008	12:00 AM	11.9	9.8	23.7	
	1:00 AM	491.2	10.6	982.3	
	2:00 AM	16.0	11.2	32.1	
	3:00 AM	17.8	11.7	35.6	
	4:00 AM	13.3	13.2	26.6	
	5:00 AM	39.3	12.2	78.6	
	6:00 AM	13.4	12.4	26.7	
	7:00 AM	13.2	12.1	26.4	
	8:00 AM	13.3	12.2	26.6	Receive confirmation sample results - re-excavate two areas.
	9:00 AM	13.9	12.0	27.9	9:30 - Finish excavation. Re-sample the two areas.
	10:00 AM	12.3	39.5	24.7	Begin to install tank heaters on frac tank to prevent freezing.
	11:00 AM	145.6	15.3	291.1	
	12:00 PM	18.6	11.2	37.3	
	1:00 PM	14.8	10.0	29.5	
	2:00 PM	11.9	10.7	23.9	
	3:00 PM	11.5	11.7	23.0	3:30 - leave site
	4:00 PM	11.4	10.8	22.8	
	5:00 PM	11.6	11.3	23.1	
	6:00 PM	11.6	10.6	23.2	
	7:00 PM	12.5	10.6	25.1	
	8:00 PM	11.9	13.4	23.7	
	9:00 PM	12.8	13.5	25.6	
	10:00 PM	13.0	12.3	25.9	
	11:00 PM	18.3	14.3	36.6	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
1/11/2008	12:00 AM	244.1	13.9	488.3	
	1:00 AM	27.1	13.9	54.2	
	2:00 AM	12.6	15.8	25.2	
	3:00 AM	12.0	25.1	24.1	
	4:00 AM	12.5	28.2	25.1	
	5:00 AM	13.2	14.9	26.5	
	6:00 AM	13.7	13.9	27.4	
	7:00 AM	13.2	14.1	26.3	
	8:00 AM	13.3	14.6	26.7	Begin backfilling the east section of Area B.
	9:00 AM	14.0	16.5	27.9	
	10:00 AM	13.8	18.0	27.6	End backfilling, high river flow velocity will not allow placement of clay fill.
	11:00 AM	15.0	28.1	30.0	Manage residuals in preparation for treating water from the pad.
	12:00 PM	14.4	13.5	28.7	
	1:00 PM	13.1	13.0	26.3	
	2:00 PM	13.7	12.9	27.4	
	3:00 PM	15.9	12.8	31.9	3:30 - leave site for the weekend.
	4:00 PM	18.3	13.0	36.7	
	5:00 PM	18.2	12.1	36.4	
	6:00 PM	16.9	14.0	33.8	
	7:00 PM	19.2	12.5	38.3	
	8:00 PM	19.6	14.5	39.2	
	9:00 PM	17.0	15.1	34.1	
	10:00 PM	13.3	14.5	26.7	
	11:00 PM	14.1	14.9	28.1	
1/12/2008	12:00 AM	13.9	18.1	27.9	
	1:00 AM	14.8	16.4	29.5	
	2:00 AM	14.8	22.3	29.7	
	3:00 AM	16.1	27.9	32.2	
	4:00 AM	19.7	340.9	39.4	
	5:00 AM	22.8	17.7	45.6	
	6:00 AM	20.7	20.0	41.5	
	7:00 AM	28.2	16.4	56.3	
	8:00 AM	680.5	15.4	1361.0	
	9:00 AM	297.3	16.8	594.7	
	10:00 AM	28.4	15.7	56.7	
	11:00 AM	481.6	16.2	963.1	
	12:00 PM	482.1	16.3	964.2	
	1:00 PM	485.7	19.9	971.4	
	2:00 PM	16.2	15.1	32.4	
	3:00 PM	846.7	15.3	1693.3	
	4:00 PM	847.4	14.9	1694.9	
	5:00 PM	15.8	14.8	31.6	
	6:00 PM	15.9	19.4	31.8	
	7:00 PM	59.1	17.7	118.3	
	8:00 PM	16.6	15.7	33.3	
	9:00 PM	15.6	15.0	31.1	
	10:00 PM	200.9	52.5	401.8	
	11:00 PM	414.0	17.3	827.9	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
1/13/2008	12:00 AM	769.2	17.6	1538.4	
	1:00 AM	493.6	16.4	987.2	
	2:00 AM	16.5	15.8	33.0	
	3:00 AM	16.5	17.6	33.1	
	4:00 AM	19.0	16.5	38.0	
	5:00 AM	18.4	16.1	36.9	
	6:00 AM	16.8	17.7	33.6	
	7:00 AM	17.3	18.2	34.5	
	8:00 AM	18.0	18.6	36.0	
	9:00 AM	17.1	20.6	34.3	
	10:00 AM	18.2	21.7	36.3	
	11:00 AM	17.2	16.2	34.4	
	12:00 PM	17.8	16.3	35.7	
	1:00 PM	42.3	16.0	84.7	
	2:00 PM	335.1	19.8	670.2	
	3:00 PM	17.2	15.7	34.3	
	4:00 PM	22.8	16.7	45.6	
	5:00 PM	22.0	16.8	44.1	
	6:00 PM	24.2	16.0	48.4	
	7:00 PM	18.3	15.9	36.6	
	8:00 PM	18.5	16.4	37.1	
	9:00 PM	19.1	16.1	38.2	
	10:00 PM	18.2	16.4	36.4	
	11:00 PM	18.6	15.7	37.2	
1/14/2008	12:00 AM	17.8	16.4	35.6	
	1:00 AM	17.5	16.6	35.0	
	2:00 AM	17.1	16.8	34.2	
	3:00 AM	16.6	19.9	33.3	
	4:00 AM	17.2	17.3	34.5	
	5:00 AM	19.5	26.5	39.0	
	6:00 AM	20.7	20.4	41.4	
	7:00 AM	20.9	21.0	41.8	
	8:00 AM	20.9	47.9	41.8	8:00 - ProACT on-site, begin preparing for water treatment. High turbidity unrelated to site activities.
	9:00 AM	21.7	16.6	43.5	
	10:00 AM	20.4	15.3	40.7	
	11:00 AM	23.1	15.0	46.3	
	12:00 PM	25.9	14.8	51.7	Begin treating water from pad, discharging to the river.
	1:00 PM	22.1	14.6	44.3	
	2:00 PM	18.8	14.6	37.6	
	3:00 PM	17.9	14.7	35.9	
	4:00 PM	18.3	14.2	36.7	
	5:00 PM	507.8	14.5	1015.7	End water treatment - approximately 41,000 gallons treated. Leave site
	6:00 PM	35.5	15.0	71.0	
	7:00 PM	27.0	14.1	54.0	
	8:00 PM	16.1	14.0	32.3	
	9:00 PM	16.3	14.3	32.7	
	10:00 PM	15.0	14.0	30.0	
	11:00 PM	14.7	14.0	29.5	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
1/15/2008	12:00 AM	14.4	14.0	28.9	
	1:00 AM	14.4	13.3	28.8	
	2:00 AM	14.2	14.1	28.3	
	3:00 AM	13.9	12.6	27.9	
	4:00 AM	14.1	12.6	28.2	
	5:00 AM	13.5	12.6	27.1	
	6:00 AM	13.3	12.4	26.7	
	7:00 AM	13.1	12.3	26.3	
	8:00 AM	29.8	12.7	59.6	ProACT on-site. Begin to thaw frozen pumps/lines.
	9:00 AM	14.4	12.2	28.7	
	10:00 AM	13.3	11.9	26.5	Begin treating water from pad, discharging to the river.
	11:00 AM	12.9	11.5	25.8	
	12:00 PM	12.8	11.5	25.6	
	1:00 PM	13.1	11.4	26.2	End water treatment - approximately 17,000 gallons treated. Begin to winterize system to prevent freezing.
	2:00 PM	14.3	11.3	28.7	
	3:00 PM	13.6	11.0	27.2	3:30 - Leave site
	4:00 PM	14.0	11.0	27.9	
	5:00 PM	22.0	11.7	44.0	
	6:00 PM	20.2	10.5	40.4	
	7:00 PM	14.8	10.8	29.7	
	8:00 PM	15.1	10.5	30.2	
	9:00 PM	14.9	10.7	29.9	
	10:00 PM	21.4	10.3	42.8	
	11:00 PM	837.9	11.2	1675.8	
1/16/2008	12:00 AM	30.6	10.5	61.3	
	1:00 AM	45.1	11.5	90.3	
	2:00 AM	12.6	9.7	25.2	
	3:00 AM	19.9	9.6	39.7	
	4:00 AM	11.5	10.1	23.1	
	5:00 AM	14.1	9.6	28.3	
	6:00 AM	13.2	9.7	26.4	
	7:00 AM	12.8	9.1	25.6	
	8:00 AM	15.5	9.0	31.0	No in-water work. Managed containment pad to make room for additional material.
	9:00 AM	13.4	8.7	26.8	
	10:00 AM	13.3	8.7	26.7	
	11:00 AM	12.6	8.6	25.2	
	12:00 PM	11.3	8.5	22.5	
	1:00 PM	12.7	7.9	25.4	
	2:00 PM	10.1	8.0	20.2	
	3:00 PM	9.5	7.9	19.0	3:30 - demobilize from site. Work suspended until river conditions improve.
	4:00 PM	11.2	7.9	22.4	
	5:00 PM	12.0	7.9	24.0	
	6:00 PM	11.2	8.0	22.5	
	7:00 PM	12.4	8.0	24.9	
	8:00 PM	10.0	7.5	20.0	
	9:00 PM	10.1	7.7	20.1	
	10:00 PM	14.3	7.4	28.7	
	11:00 PM	13.1	7.2	26.2	
Work was suspended from January 16th until January 28th due to the high water level of the Kalamzoo River					

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
1/17/2008	12:00 AM	10.3	7.2	20.6	Work suspended due to high river level and flow velocity.
	1:00 AM	9.9	7.3	19.7	
	2:00 AM	9.0	7.0	18.1	
	3:00 AM	9.2	6.7	18.3	
	4:00 AM	8.4	6.8	16.7	
	5:00 AM	10.1	6.9	20.2	
	6:00 AM	10.3	7.0	20.7	
	7:00 AM	10.6	7.0	21.2	
	8:00 AM	11.1	7.1	22.1	
	9:00 AM	9.5	6.9	18.9	
	10:00 AM	10.8	6.6	21.7	
	11:00 AM	8.3	6.4	16.5	
	12:00 PM	8.3	6.4	16.5	
	1:00 PM	8.5	6.6	17.1	
	2:00 PM	7.4	6.3	15.0	
	3:00 PM	8.9	6.0	17.9	
	4:00 PM	6.9	6.5	15.0	
	5:00 PM	7.3	9.5	15.0	
	6:00 PM	9.1	26.1	18.1	
	7:00 PM	7.6	29.5	15.1	
	8:00 PM	7.7	35.6	15.4	
	9:00 PM	6.9	36.1	15.0	
	10:00 PM	7.9	35.5	15.8	
	11:00 PM	6.7	49.2	15.0	
1/18/2008	12:00 AM	6.4	43.8	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	6.3	41.2	15.0	
	2:00 AM	5.9	40.9	15.0	
	3:00 AM	6.0	42.5	15.0	
	4:00 AM	6.0	39.0	15.0	
	5:00 AM	5.8	37.2	15.0	
	6:00 AM	5.9	26.8	15.0	
	7:00 AM	5.8	25.4	15.0	
	8:00 AM	5.7	20.7	15.0	
	9:00 AM	6.0	23.0	15.0	
	10:00 AM	6.6	22.6	15.0	
	11:00 AM	5.6	16.7	15.0	
	12:00 PM	5.6	10.7	15.0	
	1:00 PM	5.7	12.8	15.0	
	2:00 PM	5.7	10.7	15.0	
	3:00 PM	5.6	7.1	15.0	
	4:00 PM	5.3	11.3	15.0	
	5:00 PM	5.0	8.1	15.0	
	6:00 PM	5.0	6.3	15.0	
	7:00 PM	5.4	7.1	15.0	
	8:00 PM	5.4	5.7	15.0	
	9:00 PM	5.3	10.8	15.0	
	10:00 PM	5.2	5.8	15.0	
	11:00 PM	168.8	6.1	337.6	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
1/19/2008	12:00 AM	5.0	5.9	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	5.4	6.7	15.0	
	2:00 AM	5.6	6.2	15.0	
	3:00 AM	5.3	6.0	15.0	
	4:00 AM	5.5	5.5	15.0	
	5:00 AM	5.7	5.7	15.0	
	6:00 AM	5.7	5.5	15.0	
	7:00 AM	5.4	5.5	15.0	
	8:00 AM	5.4	5.5	15.0	
	9:00 AM	5.4	5.5	15.0	
	10:00 AM	5.5	5.4	15.0	
	11:00 AM	5.5	5.5	15.0	
	12:00 PM	5.7	5.2	15.0	
	1:00 PM	5.6	5.0	15.0	
	2:00 PM	5.3	4.8	15.0	
	3:00 PM	6.6	5.0	15.0	
	4:00 PM	5.5	4.9	15.0	
	5:00 PM	5.8	4.9	15.0	
	6:00 PM	5.9	5.3	15.0	
	7:00 PM	5.4	5.1	15.0	
	8:00 PM	5.5	5.0	15.0	
	9:00 PM	5.2	4.8	15.0	
	10:00 PM	5.3	4.8	15.0	
	11:00 PM	5.2	4.6	15.0	
1/20/2008	12:00 AM	4.6	4.7	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	4.3	9.1	15.0	
	2:00 AM	4.2	7.9	15.0	
	3:00 AM	4.0	4.4	15.0	
	4:00 AM	3.8	25.2	15.0	
	5:00 AM	3.8	4.1	15.0	
	6:00 AM	4.0	5.5	15.0	
	7:00 AM	4.2	4.1	15.0	
	8:00 AM	4.5	4.3	15.0	
	9:00 AM	4.0	4.8	15.0	
	10:00 AM	4.1	4.7	15.0	
	11:00 AM	4.2	4.9	15.0	
	12:00 PM	4.3	5.4	15.0	
	1:00 PM	4.3	4.9	15.0	
	2:00 PM	5.5	5.9	15.0	
	3:00 PM	7.6	5.8	15.2	
	4:00 PM	25.8	5.9	51.7	
	5:00 PM	5.0	4.6	15.0	
	6:00 PM	4.5	4.5	15.0	
	7:00 PM	4.0	4.2	15.0	
	8:00 PM	3.7	4.1	15.0	
	9:00 PM	3.5	4.1	15.0	
	10:00 PM	3.6	4.0	15.0	
	11:00 PM	3.6	4.5	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
1/21/2008	12:00 AM	3.6	4.5	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	3.6	4.4	15.0	
	2:00 AM	3.5	5.0	15.0	
	3:00 AM	3.6	5.4	15.0	
	4:00 AM	3.8	5.6	15.0	
	5:00 AM	3.7	5.5	15.0	
	6:00 AM	3.7	5.4	15.0	
	7:00 AM	3.6	5.3	15.0	
	8:00 AM	3.4	5.3	15.0	
	9:00 AM	3.3	5.4	15.0	
	10:00 AM	3.4	5.3	15.0	
	11:00 AM	3.6	5.5	15.0	
	12:00 PM	4.1	5.6	15.0	
	1:00 PM	4.1	5.8	15.0	
	2:00 PM	4.4	5.8	15.0	
	3:00 PM	5.4	6.8	15.0	
	4:00 PM	6.1	7.5	15.0	
	5:00 PM	33.4	7.0	66.8	
	6:00 PM	28.0	6.7	56.0	
	7:00 PM	19.6	6.6	39.1	
	8:00 PM	19.4	6.6	38.9	
	9:00 PM	60.8	6.7	121.7	
	10:00 PM	27.7	6.8	55.4	
	11:00 PM	18.3	7.4	36.6	
1/22/2008	12:00 AM	18.3	8.7	36.6	Work suspended due to high river level and flow velocity.
	1:00 AM	21.6	7.8	43.1	
	2:00 AM	26.0	8.2	52.0	
	3:00 AM	23.0	23.2	46.0	
	4:00 AM	23.5	12.2	47.0	
	5:00 AM	21.7	14.8	43.3	
	6:00 AM	20.2	7.6	40.3	
	7:00 AM	21.7	7.5	43.3	
	8:00 AM	25.5	7.7	51.0	
	9:00 AM	26.0	8.0	51.9	
	10:00 AM	27.2	7.6	54.4	
	11:00 AM	23.1	9.3	46.3	
	12:00 PM	24.3	8.4	48.7	
	1:00 PM	25.7	7.5	51.4	
	2:00 PM	25.3	7.7	50.5	
	3:00 PM	29.8	7.9	59.5	
	4:00 PM	30.2	9.0	60.3	
	5:00 PM	35.1	8.8	70.2	
	6:00 PM	24.2	9.0	48.3	
	7:00 PM	28.4	7.8	56.9	
	8:00 PM	22.5	7.3	45.1	
	9:00 PM	35.0	7.5	70.0	
	10:00 PM	25.6	7.7	51.2	
	11:00 PM	30.4	7.8	60.9	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
1/23/2008	12:00 AM	34.2	7.4	68.3	Work suspended due to high river level and flow velocity.
	1:00 AM	28.8	8.8	57.6	
	2:00 AM	28.1	7.5	56.3	
	3:00 AM	27.8	8.4	55.6	
	4:00 AM	37.2	8.2	74.5	
	5:00 AM	34.5	8.7	69.1	
	6:00 AM	32.0	8.8	64.0	
	7:00 AM	40.4	9.5	80.8	
	8:00 AM	35.5	8.0	71.1	
	9:00 AM	31.0	8.1	62.1	
	10:00 AM	28.5	8.8	57.0	
	11:00 AM	31.1	8.9	62.2	
	12:00 PM	31.4	9.1	62.8	
	1:00 PM	34.1	8.0	68.2	
	2:00 PM	35.8	8.1	71.6	
	3:00 PM	35.8	8.1	71.7	
	4:00 PM	32.7	9.0	65.4	
	5:00 PM	37.9	8.8	75.8	
	6:00 PM	35.4	7.8	70.7	
	7:00 PM	33.8	8.8	67.6	
	8:00 PM	31.8	10.7	63.6	
	9:00 PM	32.8	10.0	65.6	
	10:00 PM	32.2	11.2	64.4	
	11:00 PM	33.0	10.8	66.0	
1/24/2008	12:00 AM	30.4	12.0	60.8	Work suspended due to high river level and flow velocity.
	1:00 AM	33.0	11.9	66.1	
	2:00 AM	34.1	11.0	68.2	
	3:00 AM	35.0	10.9	70.0	
	4:00 AM	33.2	11.7	66.4	
	5:00 AM	33.5	14.6	67.1	
	6:00 AM	33.2	11.9	66.3	
	7:00 AM	33.8	13.6	67.7	
	8:00 AM	33.4	14.3	66.8	
	9:00 AM	34.4	14.1	68.9	
	10:00 AM	32.3	15.0	64.6	
	11:00 AM	27.9	14.6	55.9	
	12:00 PM	28.6	11.5	57.1	
	1:00 PM	30.6	11.2	61.2	
	2:00 PM	8.7	5.1	17.5	
	3:00 PM	5.6	4.6	15.0	
	4:00 PM	4.2	3.7	15.0	
	5:00 PM	3.5	3.0	15.0	
	6:00 PM	3.0	2.5	15.0	
	7:00 PM	2.6	2.2	15.0	
	8:00 PM	2.2	1.9	15.0	
	9:00 PM	2.4	3.9	15.0	
	10:00 PM	2.1	2.4	15.0	
	11:00 PM	2.0	2.3	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
1/25/2008	12:00 AM	2.1	2.1	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	2.1	2.0	15.0	
	2:00 AM	2.2	2.1	15.0	
	3:00 AM	2.3	2.1	15.0	
	4:00 AM	2.5	2.2	15.0	
	5:00 AM	4.1	2.2	15.0	
	6:00 AM	3.5	2.2	15.0	
	7:00 AM	6.6	2.3	15.0	
	8:00 AM	511.2	25.9	1022.4	
	9:00 AM	1121.7	73.2	2243.5	
	10:00 AM	1413.1	1389.9	2826.1	
	11:00 AM	1813.5	2012.4	3627.1	
	12:00 PM	1813.5	1883.1	3627.1	
	1:00 PM	1396.1	1871.3	2792.3	
	2:00 PM	346.1	476.4	692.3	
	3:00 PM	10.1	6.0	20.1	
	4:00 PM	8.6	5.2	17.1	
	5:00 PM	8.0	4.8	16.0	
	6:00 PM	7.7	4.6	15.3	
	7:00 PM	7.2	4.3	15.0	
	8:00 PM	7.2	4.2	15.0	
	9:00 PM	6.9	4.0	15.0	
	10:00 PM	6.8	3.9	15.0	
	11:00 PM	6.6	3.8	15.0	
1/26/2008	12:00 AM	6.5	3.7	15.0	Work suspended due to high river level and flow velocity. Units not in river
	1:00 AM	6.3	3.7	15.0	
	2:00 AM	6.2	3.6	15.0	
	3:00 AM	6.1	3.5	15.0	
	4:00 AM	6.0	3.5	15.0	
	5:00 AM	5.9	3.5	15.0	
	6:00 AM	5.8	3.4	15.0	
	7:00 AM	5.7	3.4	15.0	
	8:00 AM	5.6	3.3	15.0	
	9:00 AM	5.7	3.3	15.0	
	10:00 AM	5.5	3.1	15.0	
	11:00 AM	5.4	3.1	15.0	
	12:00 PM	5.3	2.9	15.0	
	1:00 PM	5.2	2.7	15.0	
	2:00 PM	5.1	2.7	15.0	
	3:00 PM	4.9	2.5	15.0	
	4:00 PM	4.5	2.4	15.0	
	5:00 PM	4.5	2.4	15.0	
	6:00 PM	4.4	2.3	15.0	
	7:00 PM	4.0	2.1	15.0	
	8:00 PM	4.1	2.2	15.0	
	9:00 PM	3.9	2.0	15.0	
	10:00 PM	3.8	2.0	15.0	
	11:00 PM	3.6	1.9	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone B
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
1/27/2008	12:00 AM	3.5	1.8	15.0	Work suspended due to high river level and flow velocity. Units not in river
	1:00 AM	3.4	1.7	15.0	
	2:00 AM	3.3	1.5	15.0	
	3:00 AM	3.1	1.5	15.0	
	4:00 AM	3.0	1.4	15.0	
	5:00 AM	2.9	1.3	15.0	
	6:00 AM	2.8	1.2	15.0	
	7:00 AM	2.7	1.2	15.0	
	8:00 AM	2.6	1.0	15.0	
	9:00 AM	2.6	1.0	15.0	
	10:00 AM	2.5	0.9	15.0	
	11:00 AM	2.3	0.8	15.0	
	12:00 PM	2.1	0.7	15.0	
	1:00 PM	2.0	0.6	15.0	
	2:00 PM	1.8	0.6	15.0	
	3:00 PM	1.7	0.4	15.0	
	4:00 PM	1.5	0.4	15.0	
	5:00 PM	1.4	0.3	15.0	
	6:00 PM	1.3	0.3	15.0	
	7:00 PM	1.1	0.3	15.0	
	8:00 PM	1.0	0.3	15.0	
	9:00 PM	0.9	0.2	15.0	
	10:00 PM	0.7	0.2	15.0	
	11:00 PM	0.6	0.2	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone C
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
3/5/2008	12:00 AM	3.0	2.8	15.0	
	1:00 AM	3.1	2.8	15.0	
	2:00 AM	3.0	3.0	15.0	
	3:00 AM	3.4	3.4	15.0	
	4:00 AM	3.2	3.5	15.0	
	5:00 AM	3.3	3.2	15.0	
	6:00 AM	3.3	3.3	15.0	
	7:00 AM	3.7	3.4	15.0	
	8:00 AM	3.4	3.5	15.0	Begin excavating eastern section of Area C.
	9:00 AM	3.3	3.8	15.0	
	10:00 AM	3.3	18.5	15.0	
	11:00 AM	3.3	26.5	15.0	Slow down excavation due to slight increase in turbidity
	12:00 PM	3.1	9.1	15.0	
	1:00 PM	3.0	3.4	15.0	
	2:00 PM	2.9	3.3	15.0	
	3:00 PM	3.0	3.3	15.0	3:30 - leave site
	4:00 PM	3.2	3.2	15.0	
	5:00 PM	3.3	3.3	15.0	
	6:00 PM	3.3	3.7	15.0	
	7:00 PM	3.7	4.1	15.0	
	8:00 PM	3.8	4.4	15.0	
	9:00 PM	4.0	4.2	15.0	
	10:00 PM	4.2	4.6	15.0	
	11:00 PM	4.2	4.3	15.0	
3/6/2008	12:00 AM	4.2	4.2	15.0	
	1:00 AM	4.1	4.4	15.0	
	2:00 AM	4.1	4.2	15.0	
	3:00 AM	4.2	4.2	15.0	
	4:00 AM	4.4	4.4	15.0	
	5:00 AM	4.1	4.6	15.0	
	6:00 AM	4.3	4.4	15.0	
	7:00 AM	4.2	4.8	15.0	
	8:00 AM	4.2	4.3	15.0	Continue excavation in east section of Area C.
	9:00 AM	4.0	4.3	15.0	
	10:00 AM	4.0	4.0	15.0	
	11:00 AM	4.0	3.8	15.0	End excavation.
	12:00 PM	3.6	9.5	15.0	Collected confirmation samples.
	1:00 PM	3.5	4.6	15.0	
	2:00 PM	3.3	3.7	15.0	Finish sample collection.
	3:00 PM	3.4	3.7	15.0	3:30 - leave site
	4:00 PM	3.1	3.7	15.0	
	5:00 PM	3.1	3.3	15.0	
	6:00 PM	3.1	3.1	15.0	
	7:00 PM	3.6	3.0	15.0	
	8:00 PM	3.0	2.9	15.0	
	9:00 PM	3.2	3.2	15.0	
	10:00 PM	3.1	3.3	15.0	
	11:00 PM	3.1	3.2	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone C
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
3/7/2008	12:00 AM	3.4	3.6	15.0	
	1:00 AM	3.4	3.4	15.0	
	2:00 AM	3.4	3.6	15.0	
	3:00 AM	3.7	4.0	15.0	
	4:00 AM	4.0	4.1	15.0	
	5:00 AM	4.0	4.1	15.0	
	6:00 AM	4.0	4.2	15.0	
	7:00 AM	3.9	4.2	15.0	
	8:00 AM	4.1	4.1	15.0	Awaiting sample results. No in-water work. Perform site/equipment maintenance.
	9:00 AM	3.9	4.0	15.0	
	10:00 AM	3.8	4.5	15.0	
	11:00 AM	3.7	4.3	15.0	
	12:00 PM	3.4	5.1	15.0	
	1:00 PM	3.7	3.9	15.0	
	2:00 PM	3.3	3.8	15.0	
	3:00 PM	3.2	3.9	15.0	3:30 - leave site for the weekend.
	4:00 PM	3.2	3.3	15.0	
	5:00 PM	3.3	3.2	15.0	
	6:00 PM	3.1	3.2	15.0	
	7:00 PM	25.4	3.1	50.8	
	8:00 PM	3.2	3.3	15.0	
	9:00 PM	3.2	3.3	15.0	
	10:00 PM	3.5	3.5	15.0	
	11:00 PM	3.7	3.4	15.0	
3/8/2008	12:00 AM	3.5	3.7	15.0	
	1:00 AM	3.6	3.5	15.0	
	2:00 AM	3.6	3.9	15.0	
	3:00 AM	3.8	4.0	15.0	
	4:00 AM	3.9	3.9	15.0	
	5:00 AM	3.9	4.2	15.0	
	6:00 AM	4.0	4.0	15.0	
	7:00 AM	3.9	4.0	15.0	
	8:00 AM	4.0	4.1	15.0	
	9:00 AM	4.1	4.0	15.0	
	10:00 AM	3.9	4.1	15.0	
	11:00 AM	4.0	4.1	15.0	
	12:00 PM	4.1	4.0	15.0	
	1:00 PM	4.0	7.9	15.0	
	2:00 PM	4.0	4.8	15.0	
	3:00 PM	4.1	4.5	15.0	
	4:00 PM	4.0	4.5	15.0	
	5:00 PM	4.0	4.5	15.0	
	6:00 PM	4.0	4.4	15.0	
	7:00 PM	4.0	4.4	15.0	
	8:00 PM	4.0	4.4	15.0	
	9:00 PM	4.1	4.7	15.0	
	10:00 PM	4.1	4.5	15.0	
	11:00 PM	4.1	4.5	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone C
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
3/9/2008	12:00 AM	4.1	4.5	15.0	
	1:00 AM	4.2	4.5	15.0	
	2:00 AM	4.2	4.4	15.0	
	3:00 AM	4.3	4.4	15.0	
	4:00 AM	4.2	4.7	15.0	
	5:00 AM	4.2	4.4	15.0	
	6:00 AM	4.1	4.3	15.0	
	7:00 AM	4.1	4.3	15.0	
	8:00 AM	4.3	4.5	15.0	
	9:00 AM	4.1	4.3	15.0	
	10:00 AM	3.9	4.0	15.0	
	11:00 AM	3.8	4.1	15.0	
	12:00 PM	3.8	4.0	15.0	
	1:00 PM	3.8	3.9	15.0	
	2:00 PM	3.7	3.8	15.0	
	3:00 PM	3.7	3.8	15.0	
	4:00 PM	3.6	3.7	15.0	
	5:00 PM	3.5	3.7	15.0	
	6:00 PM	3.6	3.8	15.0	
	7:00 PM	3.5	3.8	15.0	
	8:00 PM	3.5	3.6	15.0	
	9:00 PM	3.6	3.6	15.0	
	10:00 PM	3.5	3.6	15.0	
	11:00 PM	3.6	3.7	15.0	
3/10/2008	12:00 AM	3.6	3.6	15.0	
	1:00 AM	3.5	3.7	15.0	
	2:00 AM	3.6	3.6	15.0	
	3:00 AM	3.6	3.5	15.0	
	4:00 AM	3.6	3.5	15.0	
	5:00 AM	3.5	3.7	15.0	
	6:00 AM	3.5	3.8	15.0	
	7:00 AM	3.5	3.5	15.0	
	8:00 AM	3.4	3.5	15.0	Awaiting sample results, no excavation. Performed silt curtain and site maintenance
	9:00 AM	3.5	3.4	15.0	
	10:00 AM	3.4	3.3	15.0	
	11:00 AM	3.2	5.2	15.0	
	12:00 PM	3.1	8.1	15.0	
	1:00 PM	3.1	3.7	15.0	
	2:00 PM	3.1	3.4	15.0	
	3:00 PM	2.8	3.2	15.0	3:30 - leave site
	4:00 PM	2.8	3.2	15.0	
	5:00 PM	2.8	3.1	15.0	
	6:00 PM	2.9	3.0	15.0	
	7:00 PM	2.7	3.1	15.0	
	8:00 PM	2.9	2.9	15.0	
	9:00 PM	2.7	3.0	15.0	
	10:00 PM	2.8	3.0	15.0	
	11:00 PM	2.8	2.9	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone C
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
3/11/2008	12:00 AM	2.9	2.9	15.0	
	1:00 AM	2.8	2.9	15.0	
	2:00 AM	2.7	2.8	15.0	
	3:00 AM	2.7	2.8	15.0	
	4:00 AM	2.8	2.9	15.0	
	5:00 AM	2.7	3.0	15.0	
	6:00 AM	2.9	2.9	15.0	
	7:00 AM	3.0	2.9	15.0	
	8:00 AM	2.9	3.1	15.0	Received sample results, re-excavated two areas.
	9:00 AM	2.8	2.8	15.0	
	10:00 AM	2.8	2.7	15.0	Finished excavation.
	11:00 AM	2.8	12.3	15.0	Collected confirmation samples.
	12:00 PM	2.6	12.6	15.0	
	1:00 PM	2.6	4.3	15.0	Backfilled excavated east section of Area C.
	2:00 PM	2.5	6.1	15.0	
	3:00 PM	2.4	4.2	15.0	
	4:00 PM	2.3	5.9	15.0	4:30 - leave site
	5:00 PM	2.3	2.6	15.0	
	6:00 PM	2.3	2.3	15.0	
	7:00 PM	2.3	2.4	15.0	
	8:00 PM	2.3	2.2	15.0	
	9:00 PM	2.3	2.3	15.0	
	10:00 PM	2.4	2.4	15.0	
	11:00 PM	2.5	2.4	15.0	
3/12/2008	12:00 AM	2.6	2.5	15.0	
	1:00 AM	2.8	2.7	15.0	
	2:00 AM	2.7	2.6	15.0	
	3:00 AM	2.7	2.6	15.0	
	4:00 AM	2.7	2.6	15.0	
	5:00 AM	3.0	2.8	15.0	
	6:00 AM	2.9	2.8	15.0	
	7:00 AM	3.0	2.7	15.0	
	8:00 AM	2.8	2.8	15.0	No excavation work. Repaired equipment, moved silt curtain, managed fill material
	9:00 AM	2.8	2.7	15.0	
	10:00 AM	2.7	2.5	15.0	
	11:00 AM	2.6	3.5	15.0	
	12:00 PM	2.6	2.9	15.0	
	1:00 PM	2.8	6.0	15.0	
	2:00 PM	2.7	4.1	15.0	
	3:00 PM	2.3	3.7	15.0	3:30 - leave site
	4:00 PM	2.5	5.0	15.0	
	5:00 PM	2.2	3.6	15.0	
	6:00 PM	2.1	3.0	15.0	
	7:00 PM	2.2	2.8	15.0	
	8:00 PM	2.4	2.7	15.0	
	9:00 PM	2.2	2.7	15.0	
	10:00 PM	2.5	2.4	15.0	
	11:00 PM	2.5	2.5	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone C
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
3/13/2008	12:00 AM	2.6	2.5	15.0	
	1:00 AM	2.8	2.7	15.0	
	2:00 AM	2.7	2.8	15.0	
	3:00 AM	3.1	2.9	15.0	
	4:00 AM	2.9	2.9	15.0	
	5:00 AM	3.2	2.9	15.0	
	6:00 AM	3.0	3.0	15.0	
	7:00 AM	3.0	3.0	15.0	
	8:00 AM	3.1	3.1	15.0	Begin excavating middle 150 feet of Area C.
	9:00 AM	3.1	8.6	15.0	
	10:00 AM	3.0	4.0	15.0	
	11:00 AM	2.7	3.5	15.0	
	12:00 PM	2.8	6.3	15.0	
	1:00 PM	2.5	16.8	15.0	End excavation.
	2:00 PM	2.5	8.9	15.0	Collected confirmation samples.
	3:00 PM	2.4	4.5	15.0	
	4:00 PM	2.4	6.4	15.0	Leave Site
	5:00 PM	2.3	2.2	15.0	
	6:00 PM	2.1	2.0	15.0	
	7:00 PM	2.3	2.0	15.0	
	8:00 PM	2.3	2.0	15.0	
	9:00 PM	2.5	2.2	15.0	
	10:00 PM	2.7	2.1	15.0	
	11:00 PM	2.8	2.4	15.0	
3/14/2008	12:00 AM	3.0	2.4	15.0	
	1:00 AM	3.1	2.6	15.0	
	2:00 AM	3.1	2.7	15.0	
	3:00 AM	3.5	3.1	15.0	
	4:00 AM	3.3	3.0	15.0	
	5:00 AM	3.6	3.1	15.0	
	6:00 AM	3.9	3.0	15.0	
	7:00 AM	3.5	3.0	15.0	
	8:00 AM	3.4	2.9	15.0	Awaiting sample results
	9:00 AM	3.4	3.5	15.0	Dig and sample 6 test pits in last 180 feet of Area C.
	10:00 AM	3.3	4.3	15.0	
	11:00 AM	3.0	3.8	15.0	Finish sampling. No other in-water activities.
	12:00 PM	2.8	2.5	15.0	
	1:00 PM	2.9	4.1	15.0	
	2:00 PM	2.5	2.6	15.0	
	3:00 PM	2.4	2.2	15.0	3:30 - leave site
	4:00 PM	2.4	2.0	15.0	
	5:00 PM	2.3	2.0	15.0	
	6:00 PM	2.2	1.9	15.0	
	7:00 PM	2.2	1.9	15.0	
	8:00 PM	2.2	2.0	15.0	
	9:00 PM	2.6	2.4	15.0	
	10:00 PM	2.6	2.7	15.0	
	11:00 PM	3.1	2.6	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone C
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
3/15/2008	12:00 AM	3.2	2.6	15.0	
	1:00 AM	3.1	4.3	15.0	
	2:00 AM	3.9	3.5	15.0	
	3:00 AM	3.6	3.5	15.0	
	4:00 AM	4.0	3.7	15.0	
	5:00 AM	4.0	3.5	15.0	
	6:00 AM	4.2	3.7	15.0	
	7:00 AM	4.2	3.7	15.0	
	8:00 AM	4.6	3.8	15.0	No in-water work. Clearing and gurbbing for silt fence installation.
	9:00 AM	4.2	3.8	15.0	
	10:00 AM	4.0	3.5	15.0	
	11:00 AM	3.7	3.3	15.0	
	12:00 PM	3.4	3.1	15.0	12:30 - leave site for the weekend
	1:00 PM	3.2	2.7	15.0	
	2:00 PM	2.9	2.6	15.0	
	3:00 PM	2.8	2.4	15.0	
	4:00 PM	2.7	2.3	15.0	
	5:00 PM	2.7	2.1	15.0	
	6:00 PM	2.5	2.0	15.0	
	7:00 PM	2.6	2.1	15.0	
	8:00 PM	2.7	2.2	15.0	
	9:00 PM	2.7	2.4	15.0	
	10:00 PM	3.0	2.3	15.0	
	11:00 PM	3.1	2.7	15.0	
3/16/2008	12:00 AM	3.5	2.8	15.0	
	1:00 AM	3.2	2.8	15.0	
	2:00 AM	3.4	3.0	15.0	
	3:00 AM	3.6	3.2	15.0	
	4:00 AM	3.7	3.2	15.0	
	5:00 AM	3.8	3.4	15.0	
	6:00 AM	3.8	3.5	15.0	
	7:00 AM	4.0	3.5	15.0	
	8:00 AM	4.0	3.6	15.0	
	9:00 AM	4.0	3.6	15.0	
	10:00 AM	3.8	3.6	15.0	
	11:00 AM	3.4	3.3	15.0	
	12:00 PM	3.3	3.1	15.0	
	1:00 PM	3.2	3.0	15.0	
	2:00 PM	3.2	2.7	15.0	
	3:00 PM	3.4	2.9	15.0	
	4:00 PM	2.9	2.4	15.0	
	5:00 PM	3.2	2.4	15.0	
	6:00 PM	2.9	2.4	15.0	
	7:00 PM	2.8	2.3	15.0	
	8:00 PM	2.8	2.6	15.0	
	9:00 PM	3.2	2.6	15.0	
	10:00 PM	3.2	2.8	15.0	
	11:00 PM	3.4	2.8	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone C
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
3/17/2008	12:00 AM	3.3	3.0	15.0	
	1:00 AM	3.5	3.1	15.0	
	2:00 AM	3.9	3.1	15.0	
	3:00 AM	4.0	3.3	15.0	
	4:00 AM	4.1	3.5	15.0	
	5:00 AM	3.9	3.5	15.0	
	6:00 AM	3.7	3.5	15.0	
	7:00 AM	4.0	3.5	15.0	
	8:00 AM	3.8	3.4	15.0	Awaiting sample results, no in-water work. Continue cleaning and grubbing.
	9:00 AM	3.8	3.5	15.0	
	10:00 AM	3.7	3.3	15.0	
	11:00 AM	3.7	3.2	15.0	
	12:00 PM	3.2	2.9	15.0	
	1:00 PM	3.1	2.6	15.0	
	2:00 PM	3.1	2.6	15.0	
	3:00 PM	2.7	2.4	15.0	
	4:00 PM	2.8	2.5	15.0	
	5:00 PM	2.7	2.2	15.0	
	6:00 PM	2.4	2.1	15.0	
	7:00 PM	2.5	2.2	15.0	
	8:00 PM	2.7	2.3	15.0	
	9:00 PM	2.9	2.3	15.0	
	10:00 PM	2.9	2.6	15.0	
	11:00 PM	3.1	2.6	15.0	
3/18/2008	12:00 AM	3.5	2.8	15.0	
	1:00 AM	3.3	2.8	15.0	
	2:00 AM	3.6	3.1	15.0	
	3:00 AM	3.6	3.1	15.0	
	4:00 AM	3.7	3.3	15.0	
	5:00 AM	3.9	3.2	15.0	
	6:00 AM	3.9	3.4	15.0	
	7:00 AM	3.8	3.5	15.0	
	8:00 AM	4.4	3.5	15.0	Received sample results, re-excavated three areas. One area segregated due to > 50ppm results.
	9:00 AM	4.9	21.0	15.0	
	10:00 AM	5.0	43.7	15.0	Decrease rate of excavation to minimize turbidity
	11:00 AM	4.8	33.0	15.0	
	12:00 PM	4.4	4.1	15.0	End excavation.
	1:00 PM	3.9	3.2	15.0	Re-sample excavated area.
	2:00 PM	3.6	9.8	15.0	
	3:00 PM	3.9	3.1	15.0	3:30 - leave site
	4:00 PM	4.0	2.8	15.0	
	5:00 PM	3.7	2.6	15.0	
	6:00 PM	3.9	2.6	15.0	
	7:00 PM	4.0	2.7	15.0	
	8:00 PM	3.6	2.8	15.0	
	9:00 PM	3.7	3.0	15.0	
	10:00 PM	3.7	2.9	15.0	
	11:00 PM	3.9	3.2	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone C
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
3/19/2008	12:00 AM	3.7	3.2	15.0	
	1:00 AM	4.1	3.6	15.0	
	2:00 AM	4.2	3.8	15.0	
	3:00 AM	4.6	3.7	15.0	
	4:00 AM	4.5	4.0	15.0	
	5:00 AM	4.4	3.9	15.0	
	6:00 AM	4.4	3.9	15.0	
	7:00 AM	4.1	3.9	15.0	
	8:00 AM	4.1	3.9	15.0	No further excavation. Placed geo-fabric, field stone and rip-rap along middle section of Area C.
	9:00 AM	4.2	3.8	15.0	
	10:00 AM	3.9	3.6	15.0	
	11:00 AM	3.8	3.2	15.0	
	12:00 PM	3.5	3.3	15.0	
	1:00 PM	3.3	3.1	15.0	
	2:00 PM	3.5	6.5	15.0	
	3:00 PM	3.8	12.4	15.0	
	4:00 PM	NA	NA	NA	End turbidity monitoring, no further removal activities at the site.
	5:00 PM	NA	NA	NA	
	6:00 PM	NA	NA	NA	Leave site

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
1/28/2008	12:00 AM	0.6	0.2	15.0	
	1:00 AM	0.4	0.1	15.0	
	2:00 AM	0.4	0.1	15.0	
	3:00 AM	0.3	0.1	15.0	
	4:00 AM	0.3	0.1	15.0	
	5:00 AM	0.3	0.1	15.0	
	6:00 AM	0.2	0.1	15.0	
	7:00 AM	0.1	0.1	15.0	Units not in river
	8:00 AM	0.1	0.1	15.0	Mobilize back to the site. Begin backfilling east section of Area B.
	9:00 AM	0.1	0.1	15.0	
	10:00 AM	0.0	0.1	15.0	
	11:00 AM	0.0	0.1	15.0	Finish backfilling in Area B. Begin preparing for excavation in east section of Area D
	12:00 PM	0.1	0.1	15.0	
	1:00 PM	NA	NA	15.0	
	2:00 PM	NA	NA	15.0	Finish setting silt curtain, begin excavation in east section of Area D.
	3:00 PM	NA	NA	15.0	3:30 - leave site
	4:00 PM	NA	NA	15.0	
	5:00 PM	NA	NA	15.0	
	6:00 PM	NA	NA	15.0	
	7:00 PM	NA	NA	15.0	
	8:00 PM	NA	NA	15.0	
	9:00 PM	NA	NA	15.0	
	10:00 PM	NA	NA	15.0	
	11:00 PM	NA	NA	15.0	
1/29/2008	12:00 AM	NA	NA	15.0	
	1:00 AM	NA	NA	15.0	
	2:00 AM	NA	NA	15.0	
	3:00 AM	NA	NA	15.0	
	4:00 AM	NA	NA	15.0	
	5:00 AM	NA	NA	15.0	
	6:00 AM	NA	NA	15.0	
	7:00 AM	NA	NA	15.0	Units not in the river
	8:00 AM	NA	NA	15.0	Continue excavating in east section of Area D.
	9:00 AM	NA	NA	15.0	
	10:00 AM	NA	NA	15.0	
	11:00 AM	NA	NA	15.0	11:30 - received units at the site, clean and relocate unit housing
	12:00 PM	NA	NA	15.0	
	1:00 PM	NA	NA	15.0	1:15 - reinstall turbidity meters
	2:00 PM	NA	NA	15.0	
	3:00 PM	3.9	2.5	15.0	3:30 -leave site
	4:00 PM	3.8	3.6	15.0	
	5:00 PM	3.6	3.5	15.0	
	6:00 PM	3.6	3.6	15.0	
	7:00 PM	3.5	3.5	15.0	
	8:00 PM	4.3	8.1	15.0	
	9:00 PM	11.8	18.9	23.6	
	10:00 PM	6.6	8.8	15.0	
	11:00 PM	6.0	6.3	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
1/30/2008	12:00 AM	6.6	6.5	15.0	
	1:00 AM	8.1	8.5	16.2	
	2:00 AM	9.3	9.5	18.6	
	3:00 AM	10.3	10.3	20.5	
	4:00 AM	10.2	10.2	20.5	
	5:00 AM	11.4	11.3	22.8	
	6:00 AM	15.1	14.8	30.2	
	7:00 AM	19.9	19.7	39.7	
	8:00 AM	22.4	22.2	44.8	Continue excavating in east section of Area D.
	9:00 AM	22.0	22.0	44.1	
	10:00 AM	20.6	19.6	41.2	
	11:00 AM	16.6	16.7	33.3	
	12:00 PM	13.7	13.3	27.5	
	1:00 PM	11.5	22.2	23.1	
	2:00 PM	10.1	34.4	20.1	2:30 - finish excavation, higher turbidity due to excavation near the silt curtain at the downstream end of the removal area
	3:00 PM	8.6	41.8	17.3	3:30 - leave site
	4:00 PM	7.6	8.2	15.3	
	5:00 PM	6.9	7.3	15.0	
	6:00 PM	6.6	6.6	15.0	
	7:00 PM	5.9	8.3	15.0	
	8:00 PM	6.1	9.6	15.0	
	9:00 PM	6.0	9.3	15.0	
	10:00 PM	6.1	8.7	15.0	
	11:00 PM	5.0	8.2	15.0	
1/31/2008	12:00 AM	4.7	7.7	15.0	
	1:00 AM	4.5	7.3	15.0	
	2:00 AM	5.2	7.2	15.0	
	3:00 AM	4.4	7.0	15.0	
	4:00 AM	4.2	6.9	15.0	
	5:00 AM	4.1	6.9	15.0	
	6:00 AM	4.0	6.9	15.0	
	7:00 AM	3.7	6.8	15.0	
	8:00 AM	3.6	6.8	15.0	Collect confirmation samples from east section of Area D.
	9:00 AM	3.6	6.8	15.0	
	10:00 AM	3.7	12.6	15.0	Finish sample collection.
	11:00 AM	3.7	8.4	15.0	
	12:00 PM	3.8	8.3	15.0	
	1:00 PM	4.4	8.8	15.0	Leave site for the weekend.
	2:00 PM	4.6	9.2	15.0	
	3:00 PM	5.1	10.4	15.0	
	4:00 PM	6.3	11.2	15.0	
	5:00 PM	7.7	11.8	15.4	
	6:00 PM	9.8	13.5	19.6	
	7:00 PM	5.1	11.4	15.0	
	8:00 PM	4.6	4.4	15.0	
	9:00 PM	3.9	4.0	15.0	
	10:00 PM	3.9	3.7	15.0	
	11:00 PM	3.6	3.6	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
2/1/2008	12:00 AM	3.8	3.5	15.0	
	1:00 AM	3.6	3.5	15.0	
	2:00 AM	3.5	3.6	15.0	
	3:00 AM	3.6	3.3	15.0	
	4:00 AM	3.6	3.6	15.0	
	5:00 AM	3.7	7.1	15.0	
	6:00 AM	3.7	5.0	15.0	
	7:00 AM	3.8	5.2	15.0	
	8:00 AM	3.9	13.4	15.0	
	9:00 AM	4.0	11.2	15.0	
	10:00 AM	4.2	11.7	15.0	
	11:00 AM	4.8	13.3	15.0	
	12:00 PM	5.0	9.6	15.0	
	1:00 PM	5.3	10.0	15.0	
	2:00 PM	5.4	8.2	15.0	
	3:00 PM	5.5	8.5	15.0	
	4:00 PM	5.5	10.7	15.0	
	5:00 PM	5.5	7.7	15.0	
	6:00 PM	5.3	8.1	15.0	
	7:00 PM	5.1	6.9	15.0	
	8:00 PM	5.2	6.9	15.0	
	9:00 PM	5.2	8.0	15.0	
	10:00 PM	5.1	7.9	15.0	
	11:00 PM	5.2	8.6	15.0	
2/2/2008	12:00 AM	5.4	7.5	15.0	
	1:00 AM	5.1	7.9	15.0	
	2:00 AM	5.2	7.1	15.0	
	3:00 AM	5.1	9.7	15.0	
	4:00 AM	5.2	9.9	15.0	
	5:00 AM	5.5	8.0	15.0	
	6:00 AM	5.5	8.3	15.0	
	7:00 AM	5.4	6.3	15.0	
	8:00 AM	5.3	5.9	15.0	
	9:00 AM	5.3	6.8	15.0	
	10:00 AM	5.2	11.8	15.0	
	11:00 AM	5.0	10.7	15.0	
	12:00 PM	5.1	7.7	15.0	
	1:00 PM	4.8	7.2	15.0	
	2:00 PM	4.7	6.8	15.0	
	3:00 PM	4.4	6.1	15.0	
	4:00 PM	4.4	14.7	15.0	
	5:00 PM	4.5	135.9	15.0	
	6:00 PM	4.4	44.5	15.0	
	7:00 PM	4.5	12.3	15.0	
	8:00 PM	4.6	5.8	15.0	
	9:00 PM	4.6	4.3	15.0	
	10:00 PM	4.7	4.6	15.0	
	11:00 PM	4.9	4.7	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
2/3/2008	12:00 AM	4.8	4.7	15.0	
	1:00 AM	4.8	4.7	15.0	
	2:00 AM	4.9	4.9	15.0	
	3:00 AM	5.0	4.9	15.0	
	4:00 AM	5.0	5.0	15.0	
	5:00 AM	5.0	5.0	15.0	
	6:00 AM	5.2	5.5	15.0	
	7:00 AM	5.0	6.0	15.0	
	8:00 AM	4.9	7.4	15.0	
	9:00 AM	4.7	5.8	15.0	
	10:00 AM	4.7	4.7	15.0	
	11:00 AM	4.4	4.3	15.0	
	12:00 PM	4.4	4.3	15.0	
	1:00 PM	4.3	4.0	15.0	
	2:00 PM	4.1	3.9	15.0	
	3:00 PM	4.0	4.1	15.0	
	4:00 PM	3.9	4.3	15.0	
	5:00 PM	3.8	3.7	15.0	
	6:00 PM	3.6	4.2	15.0	
	7:00 PM	3.8	3.6	15.0	
	8:00 PM	3.7	3.4	15.0	
	9:00 PM	3.6	3.4	15.0	
	10:00 PM	3.5	3.3	15.0	
	11:00 PM	3.5	3.4	15.0	
2/4/2008	12:00 AM	3.7	3.8	15.0	
	1:00 AM	3.6	3.7	15.0	
	2:00 AM	3.7	3.7	15.0	
	3:00 AM	3.9	3.7	15.0	
	4:00 AM	3.8	3.8	15.0	
	5:00 AM	4.0	4.0	15.0	
	6:00 AM	4.1	4.6	15.0	
	7:00 AM	4.0	4.4	15.0	
	8:00 AM	4.2	4.7	15.0	Return to the site. Awaiting confirmation samples. No in-water work.
	9:00 AM	4.2	5.2	15.0	
	10:00 AM	4.3	5.9	15.0	
	11:00 AM	4.3	5.0	15.0	
	12:00 PM	4.4	4.8	15.0	
	1:00 PM	4.5	6.4	15.0	
	2:00 PM	4.2	5.7	15.0	
	3:00 PM	4.4	7.2	15.0	
	4:00 PM	4.4	8.2	15.0	
	5:00 PM	4.4	6.8	15.0	
	6:00 PM	4.4	8.6	15.0	
	7:00 PM	4.5	5.6	15.0	
	8:00 PM	4.6	7.2	15.0	
	9:00 PM	4.9	6.2	15.0	
	10:00 PM	4.9	6.0	15.0	
	11:00 PM	4.9	6.0	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
2/5/2008	12:00 AM	5.3	5.5	15.0	
	1:00 AM	5.3	6.2	15.0	
	2:00 AM	5.4	6.6	15.0	
	3:00 AM	5.6	6.6	15.0	
	4:00 AM	5.6	6.0	15.0	
	5:00 AM	5.8	6.5	15.0	
	6:00 AM	6.1	7.4	15.0	
	7:00 AM	6.1	8.8	15.0	
	8:00 AM	7.0	7.1	15.0	Awaiting sample results. No in-water work.
	9:00 AM	6.6	10.2	15.0	
	10:00 AM	7.0	7.8	15.0	
	11:00 AM	7.7	9.1	15.5	
	12:00 PM	8.4	8.6	16.8	Receive confirmation sample results - additional removal required.
	1:00 PM	8.6	8.4	17.2	Begin excavation in east end of Area D, working from east to west.
	2:00 PM	7.9	7.9	15.8	Notice sheen on the water surface in the removal area - halt excavation.
	3:00 PM	7.5	39.9	15.0	
	4:00 PM	7.0	19.6	15.0	
	5:00 PM	6.7	7.0	15.0	
	6:00 PM	6.4	6.4	15.0	Place fill in excavated area to cover source of the sheen.
	7:00 PM	6.2	6.8	15.0	7:00 - Leave the site.
	8:00 PM	6.1	34.3	15.0	
	9:00 PM	6.3	6.6	15.0	
	10:00 PM	6.2	8.9	15.0	
	11:00 PM	6.3	469.5	15.0	
2/6/2008	12:00 AM	6.1	6.1	15.0	
	1:00 AM	6.2	6.0	15.0	
	2:00 AM	6.3	6.1	15.0	
	3:00 AM	6.3	6.1	15.0	
	4:00 AM	6.2	6.1	15.0	
	5:00 AM	6.2	6.0	15.0	
	6:00 AM	6.2	6.1	15.0	
	7:00 AM	6.1	6.5	15.0	
	8:00 AM	6.4	6.2	15.0	
	9:00 AM	6.3	6.3	15.0	
	10:00 AM	6.6	7.1	15.0	Began placing cap of clean clay in excavated east section of Area D. Armored with rip-rap.
	11:00 AM	6.7	30.8	15.0	
	12:00 PM	7.0	12.4	15.0	
	1:00 PM	6.9	7.5	15.0	
	2:00 PM	6.9	25.8	15.0	
	3:00 PM	6.7	18.5	15.0	3:00 - leave the site
	4:00 PM	6.3	13.2	15.0	
	5:00 PM	6.2	6.8	15.0	
	6:00 PM	5.7	6.3	15.0	
	7:00 PM	5.7	6.0	15.0	
	8:00 PM	5.4	5.9	15.0	
	9:00 PM	5.6	5.9	15.0	
	10:00 PM	5.3	43.8	15.0	
	11:00 PM	5.4	5.5	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
2/7/2008	12:00 AM	5.3	5.4	15.0	
	1:00 AM	5.3	5.4	15.0	
	2:00 AM	5.4	5.4	15.0	
	3:00 AM	5.3	5.5	15.0	
	4:00 AM	5.4	5.6	15.0	
	5:00 AM	5.2	5.3	15.0	
	6:00 AM	5.2	5.3	15.0	
	7:00 AM	5.3	5.3	15.0	
	8:00 AM	5.2	5.3	15.0	No in-water work. Segregated material within the containment pad.
	9:00 AM	5.2	5.1	15.0	
	10:00 AM	5.2	9.7	15.0	
	11:00 AM	5.0	15.1	15.0	
	12:00 PM	5.0	528.4	15.0	
	1:00 PM	4.8	186.3	15.0	
	2:00 PM	4.7	1080.3	15.0	
	3:00 PM	4.7	373.2	15.0	3:00 - leave the site
	4:00 PM	4.5	521.3	15.0	
	5:00 PM	5.2	6.1	15.0	
	6:00 PM	4.3	6.2	15.0	
	7:00 PM	4.3	9.0	15.0	
	8:00 PM	4.2	35.8	15.0	
	9:00 PM	4.2	9.3	15.0	
	10:00 PM	4.3	26.7	15.0	
	11:00 PM	4.4	9.8	15.0	
2/8/2008	12:00 AM	4.5	5.5	15.0	
	1:00 AM	4.5	5.1	15.0	
	2:00 AM	4.4	5.2	15.0	
	3:00 AM	4.5	4.8	15.0	
	4:00 AM	4.5	7.6	15.0	
	5:00 AM	4.5	17.7	15.0	
	6:00 AM	4.3	40.9	15.0	
	7:00 AM	4.5	7.8	15.0	
	8:00 AM	4.4	4.9	15.0	No in-water work. Moved segregated material from the containment pad to lined roll-off boxes.
	9:00 AM	4.3	4.5	15.0	
	10:00 AM	4.3	4.6	15.0	
	11:00 AM	4.3	4.4	15.0	
	12:00 PM	4.1	4.5	15.0	
	1:00 PM	4.1	4.2	15.0	
	2:00 PM	3.9	4.2	15.0	
	3:00 PM	3.7	4.0	15.0	3:00 - Leave the site for the weekend
	4:00 PM	3.7	4.0	15.0	
	5:00 PM	3.6	4.1	15.0	
	6:00 PM	3.8	4.2	15.0	
	7:00 PM	3.8	4.1	15.0	
	8:00 PM	3.7	4.2	15.0	
	9:00 PM	4.0	4.3	15.0	
	10:00 PM	4.0	4.7	15.0	
	11:00 PM	4.1	4.6	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
2/9/2008	12:00 AM	4.1	4.7	15.0	
	1:00 AM	4.4	4.7	15.0	
	2:00 AM	4.3	4.9	15.0	
	3:00 AM	4.3	4.8	15.0	
	4:00 AM	4.4	5.0	15.0	
	5:00 AM	4.3	5.1	15.0	
	6:00 AM	4.5	5.0	15.0	
	7:00 AM	4.3	4.9	15.0	
	8:00 AM	4.2	4.9	15.0	
	9:00 AM	4.2	4.6	15.0	
	10:00 AM	4.1	5.2	15.0	
	11:00 AM	4.1	530.6	15.0	
	12:00 PM	4.0	4.5	15.0	
	1:00 PM	4.0	4.3	15.0	
	2:00 PM	4.0	4.0	15.0	
	3:00 PM	3.8	4.2	15.0	
	4:00 PM	3.8	4.2	15.0	
	5:00 PM	3.7	3.9	15.0	
	6:00 PM	3.6	4.0	15.0	
	7:00 PM	3.6	3.9	15.0	
	8:00 PM	3.7	3.9	15.0	
	9:00 PM	3.8	3.9	15.0	
	10:00 PM	3.9	4.0	15.0	
	11:00 PM	3.8	4.1	15.0	
2/10/2008	12:00 AM	4.0	4.1	15.0	
	1:00 AM	4.1	4.1	15.0	
	2:00 AM	4.1	4.3	15.0	
	3:00 AM	4.1	4.3	15.0	
	4:00 AM	4.3	4.3	15.0	
	5:00 AM	4.4	4.2	15.0	
	6:00 AM	4.1	4.5	15.0	
	7:00 AM	4.3	4.6	15.0	
	8:00 AM	4.5	4.6	15.0	
	9:00 AM	4.5	4.4	15.0	
	10:00 AM	4.4	4.5	15.0	
	11:00 AM	4.5	5.5	15.0	
	12:00 PM	4.4	11.5	15.0	
	1:00 PM	4.5	13.9	15.0	
	2:00 PM	4.4	15.2	15.0	
	3:00 PM	4.3	16.2	15.0	
	4:00 PM	4.9	29.0	15.0	
	5:00 PM	4.7	34.2	15.0	
	6:00 PM	4.4	33.9	15.0	
	7:00 PM	4.6	32.8	15.0	
	8:00 PM	5.2	34.2	15.0	
	9:00 PM	6.5	34.6	15.0	
	10:00 PM	6.2	33.6	15.0	
	11:00 PM	6.3	33.8	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
2/11/2008	12:00 AM	6.4	31.9	15.0	
	1:00 AM	6.6	29.1	15.0	
	2:00 AM	6.6	27.9	15.0	
	3:00 AM	6.6	26.5	15.0	
	4:00 AM	6.6	24.8	15.0	
	5:00 AM	6.7	24.5	15.0	
	6:00 AM	6.5	25.0	15.0	
	7:00 AM	6.7	25.6	15.0	
	8:00 AM	6.7	26.5	15.0	Returned to the site, awaiting sample results. No work due to poor weather conditions
	9:00 AM	6.7	27.2	15.0	
	10:00 AM	6.8	27.8	15.0	
	11:00 AM	7.0	28.7	15.0	
	12:00 PM	7.4	29.2	15.0	
	1:00 PM	7.9	29.5	15.9	
	2:00 PM	9.0	32.3	17.9	
	3:00 PM	10.5	24.8	20.9	3:00 - Leave the site
	4:00 PM	6.8	7.9	15.0	
	5:00 PM	6.2	7.0	15.0	
	6:00 PM	6.1	7.0	15.0	
	7:00 PM	5.6	6.2	15.0	
	8:00 PM	5.4	5.5	15.0	
	9:00 PM	5.6	5.1	15.0	
	10:00 PM	5.0	5.1	15.0	
	11:00 PM	4.8	4.9	15.0	
2/12/2008	12:00 AM	4.6	4.8	15.0	
	1:00 AM	4.4	4.3	15.0	
	2:00 AM	4.2	4.4	15.0	
	3:00 AM	4.2	4.2	15.0	
	4:00 AM	4.2	4.4	15.0	
	5:00 AM	4.1	4.4	15.0	
	6:00 AM	3.8	4.4	15.0	
	7:00 AM	3.7	4.4	15.0	
	8:00 AM	3.8	4.3	15.0	Receive confirmation sample results. Will excavate west end of Area D. Move silt curtain.
	9:00 AM	3.5	4.3	15.0	
	10:00 AM	3.4	4.2	15.0	Begin excavation at the west end of Area D.
	11:00 AM	3.4	17.0	15.0	
	12:00 PM	3.5	44.4	15.0	Additional connectors added to edge of curtain to contain material adjacent to bank
	1:00 PM	3.6	54.0	15.0	No visual turbidity
	2:00 PM	3.6	40.6	15.0	Remove leaf debris from monitor
	3:00 PM	3.4	46.2	15.0	3:00 - Leave the site for the weekend
	4:00 PM	3.6	35.1	15.0	
	5:00 PM	3.8	34.0	15.0	
	6:00 PM	3.7	34.1	15.0	
	7:00 PM	3.7	34.7	15.0	
	8:00 PM	3.5	35.1	15.0	
	9:00 PM	3.4	35.1	15.0	
	10:00 PM	3.3	35.3	15.0	
	11:00 PM	3.2	35.6	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
2/13/2008	12:00 AM	3.2	35.3	15.0	
	1:00 AM	3.2	35.0	15.0	
	2:00 AM	3.0	36.0	15.0	
	3:00 AM	3.0	33.0	15.0	
	4:00 AM	3.0	30.6	15.0	
	5:00 AM	2.9	30.5	15.0	
	6:00 AM	2.9	30.5	15.0	
	7:00 AM	2.8	30.4	15.0	
	8:00 AM	2.8	30.5	15.0	
	9:00 AM	2.7	30.6	15.0	Excavation can not continue due to damaged silt curtain. Collected confirmation samples - high turbidity caused by debris on the meter.
	10:00 AM	2.7	30.7	15.0	
	11:00 AM	2.8	30.8	15.0	
	12:00 PM	2.8	31.0	15.0	
	1:00 PM	2.8	31.8	15.0	
	2:00 PM	3.3	29.4	15.0	
	3:00 PM	4.5	13.7	15.0	
	4:00 PM	4.7	12.6	15.0	
	5:00 PM	4.7	6.0	15.0	5:00 - Leave the site - work suspended
	6:00 PM	4.7	4.9	15.0	
	7:00 PM	4.4	4.5	15.0	
	8:00 PM	4.3	4.3	15.0	
	9:00 PM	4.0	4.5	15.0	
	10:00 PM	3.9	3.8	15.0	
	11:00 PM	3.6	3.5	15.0	
Work was suspended from February 13th until February 28th due to the high water level of the Kalamzoo River					
2/14/2008	12:00 AM	3.5	3.5	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	3.1	3.1	15.0	
	2:00 AM	3.2	3.2	15.0	
	3:00 AM	3.1	3.2	15.0	
	4:00 AM	3.0	3.2	15.0	
	5:00 AM	3.1	3.2	15.0	
	6:00 AM	2.9	3.6	15.0	
	7:00 AM	3.1	3.1	15.0	
	8:00 AM	2.9	2.7	15.0	
	9:00 AM	2.7	2.9	15.0	
	10:00 AM	2.5	3.1	15.0	
	11:00 AM	2.5	3.2	15.0	
	12:00 PM	2.6	3.3	15.0	
	1:00 PM	2.7	3.1	15.0	
	2:00 PM	2.6	3.2	15.0	
	3:00 PM	2.6	2.8	15.0	
	4:00 PM	2.6	3.2	15.0	
	5:00 PM	2.5	3.5	15.0	
	6:00 PM	2.6	3.0	15.0	
	7:00 PM	2.6	2.6	15.0	
	8:00 PM	2.6	2.5	15.0	
	9:00 PM	2.5	4.3	15.0	
	10:00 PM	2.5	3.3	15.0	
	11:00 PM	2.6	3.7	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
2/15/2008	12:00 AM	2.5	3.6	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	2.8	2.7	15.0	
	2:00 AM	2.8	2.7	15.0	
	3:00 AM	2.5	2.8	15.0	
	4:00 AM	2.7	2.8	15.0	
	5:00 AM	2.8	2.8	15.0	
	6:00 AM	2.7	3.0	15.0	
	7:00 AM	2.8	2.7	15.0	
	8:00 AM	2.7	2.7	15.0	
	9:00 AM	2.7	2.7	15.0	
	10:00 AM	2.6	2.5	15.0	
	11:00 AM	2.6	2.5	15.0	
	12:00 PM	2.5	2.4	15.0	
	1:00 PM	2.4	2.3	15.0	
	2:00 PM	2.4	2.3	15.0	
	3:00 PM	2.3	2.6	15.0	
	4:00 PM	2.2	2.6	15.0	
	5:00 PM	2.3	2.3	15.0	
	6:00 PM	2.3	2.3	15.0	
	7:00 PM	2.5	2.4	15.0	
	8:00 PM	2.3	2.5	15.0	
	9:00 PM	2.5	2.8	15.0	
	10:00 PM	2.6	2.5	15.0	
	11:00 PM	2.8	2.6	15.0	
2/16/2008	12:00 AM	2.5	2.8	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	2.6	4.2	15.0	
	2:00 AM	2.6	2.7	15.0	
	3:00 AM	2.7	2.6	15.0	
	4:00 AM	2.4	2.7	15.0	
	5:00 AM	2.5	2.6	15.0	
	6:00 AM	2.4	2.4	15.0	
	7:00 AM	2.5	2.2	15.0	
	8:00 AM	2.3	2.2	15.0	
	9:00 AM	2.2	2.1	15.0	
	10:00 AM	2.2	2.1	15.0	
	11:00 AM	2.0	2.3	15.0	
	12:00 PM	2.1	2.4	15.0	
	1:00 PM	2.5	2.7	15.0	
	2:00 PM	2.4	2.6	15.0	
	3:00 PM	2.5	2.5	15.0	
	4:00 PM	2.9	2.6	15.0	
	5:00 PM	2.5	2.5	15.0	
	6:00 PM	2.3	2.5	15.0	
	7:00 PM	2.3	2.1	15.0	
	8:00 PM	2.2	2.0	15.0	
	9:00 PM	2.2	2.1	15.0	
	10:00 PM	2.3	2.0	15.0	
	11:00 PM	2.1	2.2	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
2/17/2008	12:00 AM	2.2	2.1	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	2.2	2.2	15.0	
	2:00 AM	2.3	2.2	15.0	
	3:00 AM	2.2	2.2	15.0	
	4:00 AM	2.2	2.9	15.0	
	5:00 AM	2.2	2.2	15.0	
	6:00 AM	2.3	2.2	15.0	
	7:00 AM	2.3	2.2	15.0	
	8:00 AM	2.2	2.5	15.0	
	9:00 AM	3.1	3.4	15.0	
	10:00 AM	2.9	6.2	15.0	
	11:00 AM	3.4	6.6	15.0	
	12:00 PM	3.0	5.4	15.0	
	1:00 PM	2.4	3.2	15.0	
	2:00 PM	2.3	3.0	15.0	
	3:00 PM	2.5	2.8	15.0	
	4:00 PM	2.7	6.0	15.0	
	5:00 PM	3.6	7.6	15.0	
	6:00 PM	5.8	13.1	15.0	
	7:00 PM	4.2	6.1	15.0	
	8:00 PM	5.5	6.7	15.0	
	9:00 PM	6.7	7.9	15.0	
	10:00 PM	7.2	8.9	15.0	
	11:00 PM	7.6	9.6	15.2	
2/18/2008	12:00 AM	7.5	8.8	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	7.6	8.6	15.1	
	2:00 AM	7.9	9.9	15.9	
	3:00 AM	8.2	11.3	16.5	
	4:00 AM	8.8	11.6	17.6	
	5:00 AM	9.1	10.4	18.2	
	6:00 AM	8.7	9.1	17.4	
	7:00 AM	7.9	9.2	15.8	
	8:00 AM	7.2	9.6	15.0	
	9:00 AM	6.5	8.2	15.0	
	10:00 AM	5.9	6.7	15.0	
	11:00 AM	5.4	6.7	15.0	
	12:00 PM	5.0	8.0	15.0	
	1:00 PM	4.4	6.2	15.0	
	2:00 PM	4.4	6.3	15.0	
	3:00 PM	4.0	6.0	15.0	
	4:00 PM	3.8	4.9	15.0	
	5:00 PM	3.6	5.3	15.0	
	6:00 PM	3.5	5.3	15.0	
	7:00 PM	3.2	5.6	15.0	
	8:00 PM	3.2	5.8	15.0	
	9:00 PM	3.1	4.8	15.0	
	10:00 PM	3.2	5.2	15.0	
	11:00 PM	3.2	5.2	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
2/19/2008	12:00 AM	3.1	5.4	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	3.0	4.8	15.0	
	2:00 AM	3.1	4.8	15.0	
	3:00 AM	3.1	4.5	15.0	
	4:00 AM	2.9	3.6	15.0	
	5:00 AM	3.0	4.6	15.0	
	6:00 AM	2.9	3.2	15.0	
	7:00 AM	3.4	3.1	15.0	
	8:00 AM	4.6	3.1	15.0	
	9:00 AM	4.7	2.9	15.0	
	10:00 AM	4.5	2.9	15.0	
	11:00 AM	4.5	3.3	15.0	
	12:00 PM	4.7	4.2	15.0	
	1:00 PM	4.0	4.4	15.0	
	2:00 PM	3.6	5.6	15.0	
	3:00 PM	3.8	5.8	15.0	
	4:00 PM	4.0	7.3	15.0	
	5:00 PM	4.2	6.1	15.0	
	6:00 PM	3.9	4.3	15.0	
	7:00 PM	4.0	4.5	15.0	
	8:00 PM	4.0	5.6	15.0	
	9:00 PM	4.0	5.8	15.0	
	10:00 PM	4.0	4.4	15.0	
	11:00 PM	3.9	5.7	15.0	
2/20/2008	12:00 AM	4.0	4.3	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	3.9	4.1	15.0	
	2:00 AM	3.8	3.9	15.0	
	3:00 AM	3.7	3.8	15.0	
	4:00 AM	3.9	4.1	15.0	
	5:00 AM	3.6	3.7	15.0	
	6:00 AM	3.6	4.5	15.0	
	7:00 AM	3.6	3.5	15.0	
	8:00 AM	4.2	3.3	15.0	
	9:00 AM	4.7	3.2	15.0	
	10:00 AM	4.9	8.0	15.0	
	11:00 AM	4.8	48.6	15.0	
	12:00 PM	4.4	11.2	15.0	
	1:00 PM	3.5	8.9	15.0	
	2:00 PM	3.3	9.6	15.0	
	3:00 PM	3.2	8.8	15.0	
	4:00 PM	3.2	8.8	15.0	
	5:00 PM	3.2	7.4	15.0	
	6:00 PM	3.1	7.1	15.0	
	7:00 PM	3.1	6.3	15.0	
	8:00 PM	3.0	5.7	15.0	
	9:00 PM	3.0	5.5	15.0	
	10:00 PM	3.1	5.2	15.0	
	11:00 PM	3.2	4.8	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
2/21/2008	12:00 AM	3.2	4.6	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	3.3	4.5	15.0	
	2:00 AM	3.2	4.3	15.0	
	3:00 AM	3.3	4.2	15.0	
	4:00 AM	3.4	4.0	15.0	
	5:00 AM	3.3	3.7	15.0	
	6:00 AM	3.2	3.4	15.0	
	7:00 AM	3.1	3.2	15.0	
	8:00 AM	3.0	3.0	15.0	
	9:00 AM	3.1	2.9	15.0	
	10:00 AM	3.0	2.9	15.0	
	11:00 AM	2.9	3.1	15.0	
	12:00 PM	3.1	3.7	15.0	
	1:00 PM	3.2	4.4	15.0	
	2:00 PM	3.3	4.6	15.0	
	3:00 PM	3.8	4.6	15.0	
	4:00 PM	4.1	5.1	15.0	
	5:00 PM	4.8	5.5	15.0	
	6:00 PM	4.4	5.5	15.0	
	7:00 PM	4.2	5.1	15.0	
	8:00 PM	3.8	4.9	15.0	
	9:00 PM	3.9	4.6	15.0	
	10:00 PM	3.9	4.6	15.0	
	11:00 PM	3.7	4.6	15.0	
2/22/2008	12:00 AM	3.8	4.5	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	3.8	4.4	15.0	
	2:00 AM	3.7	4.4	15.0	
	3:00 AM	3.6	4.5	15.0	
	4:00 AM	3.5	4.5	15.0	
	5:00 AM	3.6	4.2	15.0	
	6:00 AM	3.5	4.1	15.0	
	7:00 AM	3.5	4.2	15.0	
	8:00 AM	3.5	4.0	15.0	
	9:00 AM	3.3	4.0	15.0	
	10:00 AM	3.4	4.0	15.0	
	11:00 AM	3.4	4.0	15.0	
	12:00 PM	3.3	3.7	15.0	
	1:00 PM	3.2	4.1	15.0	
	2:00 PM	3.4	4.0	15.0	
	3:00 PM	4.7	4.0	15.0	
	4:00 PM	3.3	4.1	15.0	
	5:00 PM	3.5	4.1	15.0	
	6:00 PM	3.6	4.3	15.0	
	7:00 PM	3.8	4.5	15.0	
	8:00 PM	3.8	4.8	15.0	
	9:00 PM	4.1	4.9	15.0	
	10:00 PM	4.3	5.1	15.0	
	11:00 PM	5.1	5.2	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
2/23/2008	12:00 AM	4.5	5.2	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	4.7	5.5	15.0	
	2:00 AM	4.7	5.4	15.0	
	3:00 AM	4.7	5.3	15.0	
	4:00 AM	4.7	5.3	15.0	
	5:00 AM	4.7	5.2	15.0	
	6:00 AM	4.7	5.3	15.0	
	7:00 AM	4.6	4.9	15.0	
	8:00 AM	4.6	4.7	15.0	
	9:00 AM	4.5	4.5	15.0	
	10:00 AM	4.6	4.3	15.0	
	11:00 AM	4.8	4.2	15.0	
	12:00 PM	4.3	4.6	15.0	
	1:00 PM	4.6	5.4	15.0	
	2:00 PM	4.9	6.1	15.0	
	3:00 PM	6.1	6.0	15.0	
	4:00 PM	5.6	6.5	15.0	
	5:00 PM	5.5	533.5	15.0	
	6:00 PM	5.0	879.1	15.0	
	7:00 PM	4.7	1170.7	15.0	
	8:00 PM	4.5	1093.0	15.0	
	9:00 PM	4.6	885.7	15.0	
	10:00 PM	4.3	5.2	15.0	
	11:00 PM	4.4	5.1	15.0	
2/24/2008	12:00 AM	4.3	5.0	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	4.3	4.8	15.0	
	2:00 AM	4.2	5.0	15.0	
	3:00 AM	4.4	6.1	15.0	
	4:00 AM	4.1	4.7	15.0	
	5:00 AM	4.1	4.7	15.0	
	6:00 AM	4.0	4.7	15.0	
	7:00 AM	4.0	4.6	15.0	
	8:00 AM	4.0	4.5	15.0	
	9:00 AM	3.9	4.2	15.0	
	10:00 AM	3.9	4.1	15.0	
	11:00 AM	3.8	4.1	15.0	
	12:00 PM	3.7	4.6	15.0	
	1:00 PM	3.8	4.4	15.0	
	2:00 PM	3.7	4.5	15.0	
	3:00 PM	3.7	4.4	15.0	
	4:00 PM	3.5	4.2	15.0	
	5:00 PM	3.5	4.3	15.0	
	6:00 PM	3.6	4.1	15.0	
	7:00 PM	3.4	4.1	15.0	
	8:00 PM	3.3	4.1	15.0	
	9:00 PM	3.2	4.1	15.0	
	10:00 PM	3.4	4.0	15.0	
	11:00 PM	3.3	4.0	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
2/25/2008	12:00 AM	3.4	3.9	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	3.6	4.0	15.0	
	2:00 AM	3.5	4.2	15.0	
	3:00 AM	3.5	4.1	15.0	
	4:00 AM	3.5	4.0	15.0	
	5:00 AM	3.5	4.0	15.0	
	6:00 AM	3.4	585.3	15.0	
	7:00 AM	3.4	121.1	15.0	
	8:00 AM	3.2	3.9	15.0	
	9:00 AM	3.2	3.8	15.0	
	10:00 AM	3.2	3.7	15.0	
	11:00 AM	3.2	3.8	15.0	
	12:00 PM	3.1	3.8	15.0	
	1:00 PM	3.0	3.6	15.0	
	2:00 PM	2.9	3.4	15.0	
	3:00 PM	2.9	3.4	15.0	
	4:00 PM	2.9	3.6	15.0	
	5:00 PM	2.7	3.2	15.0	
	6:00 PM	2.7	3.2	15.0	
	7:00 PM	2.8	3.2	15.0	
	8:00 PM	2.6	3.7	15.0	
	9:00 PM	2.6	3.3	15.0	
	10:00 PM	2.7	3.1	15.0	
	11:00 PM	2.7	3.3	15.0	
2/26/2008	12:00 AM	2.9	3.1	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	2.8	3.5	15.0	
	2:00 AM	2.9	4.0	15.0	
	3:00 AM	2.8	3.3	15.0	
	4:00 AM	2.8	3.7	15.0	
	5:00 AM	2.9	3.2	15.0	
	6:00 AM	3.0	3.3	15.0	
	7:00 AM	2.9	3.2	15.0	
	8:00 AM	2.9	3.1	15.0	
	9:00 AM	2.8	3.1	15.0	
	10:00 AM	2.8	3.1	15.0	
	11:00 AM	2.8	3.0	15.0	
	12:00 PM	2.7	3.0	15.0	
	1:00 PM	2.5	2.8	15.0	
	2:00 PM	2.6	3.0	15.0	
	3:00 PM	2.6	2.8	15.0	
	4:00 PM	2.6	2.9	15.0	
	5:00 PM	2.6	2.8	15.0	
	6:00 PM	2.4	2.8	15.0	
	7:00 PM	2.4	2.7	15.0	
	8:00 PM	2.4	2.7	15.0	
	9:00 PM	2.6	2.7	15.0	
	10:00 PM	2.5	2.7	15.0	
	11:00 PM	2.5	2.9	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
2/27/2008	12:00 AM	2.6	2.9	15.0	Work suspended due to high river level and flow velocity.
	1:00 AM	2.6	3.0	15.0	
	2:00 AM	2.6	3.1	15.0	
	3:00 AM	2.6	3.9	15.0	
	4:00 AM	2.6	3.0	15.0	
	5:00 AM	2.7	3.0	15.0	
	6:00 AM	2.6	3.0	15.0	
	7:00 AM	2.7	3.0	15.0	
	8:00 AM	2.7	2.9	15.0	
	9:00 AM	2.5	3.2	15.0	
	10:00 AM	2.5	2.9	15.0	
	11:00 AM	2.5	2.7	15.0	
	12:00 PM	2.4	2.6	15.0	
	1:00 PM	2.3	2.7	15.0	
	2:00 PM	2.3	2.6	15.0	
	3:00 PM	2.3	2.5	15.0	
	4:00 PM	2.3	2.5	15.0	
	5:00 PM	2.3	2.7	15.0	
	6:00 PM	2.3	2.6	15.0	
	7:00 PM	2.1	2.5	15.0	
	8:00 PM	2.1	2.6	15.0	
	9:00 PM	2.4	2.5	15.0	
	10:00 PM	2.2	2.5	15.0	
	11:00 PM	2.2	2.4	15.0	
2/28/2008	12:00 AM	2.3	2.5	15.0	Work suspended due to high river level and flow velocity. Removed the turbidity meters.
	1:00 AM	2.3	3.1	15.0	
	2:00 AM	2.3	2.5	15.0	
	3:00 AM	2.2	2.5	15.0	
	4:00 AM	2.2	2.6	15.0	
	5:00 AM	2.2	2.7	15.0	
	6:00 AM	2.3	2.5	15.0	
	7:00 AM	2.3	2.8	15.0	
	8:00 AM	2.2	2.6	15.0	
	9:00 AM	2.1	2.5	15.0	
	10:00 AM	2.2	2.6	15.0	
	11:00 AM	2.2	2.5	15.0	
	12:00 PM	2.1	2.4	15.0	
	1:00 PM	2.1	2.7	15.0	
	2:00 PM	2.1	4.9	15.0	
	3:00 PM	2.0	2.3	15.0	
	4:00 PM	2.0	7.1	15.0	
	5:00 PM	9.5	54.3	18.9	
	6:00 PM	6.0	48.1	15.0	
	7:00 PM	4.6	41.2	15.0	
	8:00 PM	0.4	0.5	15.0	
	9:00 PM	0.4	0.4	15.0	
	10:00 PM	0.4	0.3	15.0	
	11:00 PM	0.3	0.2	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
2/29/2008	12:00 AM	0.3	0.3	15.0	Work suspended due to high river level and flow velocity. Removed the turbidity meters.
	1:00 AM	0.3	0.2	15.0	
	2:00 AM	0.3	0.3	15.0	
	3:00 AM	0.3	0.3	15.0	
	4:00 AM	0.3	0.3	15.0	
	5:00 AM	0.4	0.3	15.0	
	6:00 AM	0.5	0.3	15.0	
	7:00 AM	0.5	0.3	15.0	
	8:00 AM	0.7	0.3	15.0	
	9:00 AM	0.5	0.2	15.0	
	10:00 AM	0.2	0.3	15.0	
	11:00 AM	0.1	0.3	15.0	
	12:00 PM	0.0	0.8	15.0	
	1:00 PM	0.0	0.6	15.0	
	2:00 PM	0.2	0.4	15.0	
	3:00 PM	0.2	0.4	15.0	
	4:00 PM	0.1	0.2	15.0	
	5:00 PM	0.2	0.2	15.0	
	6:00 PM	0.3	0.1	15.0	
	7:00 PM	0.4	0.0	15.0	
	8:00 PM	0.4	0.0	15.0	
	9:00 PM	0.4	0.0	15.0	
	10:00 PM	0.5	0.1	15.0	
	11:00 PM	0.5	0.1	15.0	
3/1/2008	12:00 AM	0.5	0.2	15.0	Work suspended due to high river level and flow velocity. Removed the turbidity meters.
	1:00 AM	0.5	0.2	15.0	
	2:00 AM	0.5	0.2	15.0	
	3:00 AM	0.5	0.2	15.0	
	4:00 AM	0.5	0.2	15.0	
	5:00 AM	0.5	0.2	15.0	
	6:00 AM	0.5	0.2	15.0	
	7:00 AM	0.5	0.2	15.0	
	8:00 AM	0.5	0.2	15.0	
	9:00 AM	0.5	0.3	15.0	
	10:00 AM	0.5	0.3	15.0	
	11:00 AM	0.5	0.3	15.0	
	12:00 PM	0.5	0.3	15.0	
	1:00 PM	0.5	0.3	15.0	
	2:00 PM	0.5	0.4	15.0	
	3:00 PM	0.5	0.3	15.0	
	4:00 PM	0.5	0.3	15.0	
	5:00 PM	0.5	0.3	15.0	
	6:00 PM	0.5	0.3	15.0	
	7:00 PM	0.5	0.4	15.0	
	8:00 PM	0.5	0.4	15.0	
	9:00 PM	0.5	0.4	15.0	
	10:00 PM	0.5	0.4	15.0	
	11:00 PM	0.5	0.4	15.0	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream NTU	Downstream NTU	Criterion NTU	Comments
3/2/2008	12:00 AM	0.5	0.4	15.0	Work suspended due to high river level and flow velocity. Removed the turbidity meters.
	1:00 AM	0.5	0.4	15.0	
	2:00 AM	0.5	0.4	15.0	
	3:00 AM	0.5	0.4	15.0	
	4:00 AM	0.5	0.4	15.0	
	5:00 AM	0.5	0.4	15.0	
	6:00 AM	0.5	0.4	15.0	
	7:00 AM	0.5	0.4	15.0	
	8:00 AM	0.5	0.4	15.0	
	9:00 AM	0.5	0.4	15.0	
	10:00 AM	0.5	0.4	15.0	
	11:00 AM	0.5	0.4	15.0	
	12:00 PM	0.5	0.4	15.0	
	1:00 PM	0.5	0.4	15.0	
	2:00 PM	0.5	0.4	15.0	
	3:00 PM	0.5	0.4	15.0	
	4:00 PM	0.5	0.4	15.0	
	5:00 PM	0.5	0.4	15.0	
	6:00 PM	0.5	0.4	15.0	
	7:00 PM	0.5	0.4	15.0	
	8:00 PM	0.5	0.4	15.0	
	9:00 PM	0.5	0.4	15.0	
	10:00 PM	0.5	0.4	15.0	
	11:00 PM	0.5	0.4	15.0	
3/3/2008	12:00 AM	0.5	0.4	15.0	
	1:00 AM	0.5	0.4	15.0	
	2:00 AM	0.5	0.4	15.0	
	3:00 AM	0.5	0.4	15.0	
	4:00 AM	0.5	0.4	15.0	
	5:00 AM	0.5	0.4	15.0	
	6:00 AM	0.5	0.4	15.0	
	7:00 AM	0.5	0.4	15.0	
	8:00 AM	0.5	0.4	15.0	Return to site. Prep equipment.
	9:00 AM	0.5	0.4	15.0	
	10:00 AM	0.5	0.4	15.0	
	11:00 AM				Reinstall turbidity meters.
	12:00 PM	1.7	2.1	15.0	Collect additional confirmation samples from west end of Area D.
	1:00 PM	4.0	9.6	15.0	
	2:00 PM	4.0	5.3	15.0	
	3:00 PM	4.0	4.8	15.0	3:45 - Leave the site
	4:00 PM	4.1	4.5	15.0	
	5:00 PM	4.3	4.5	15.0	
	6:00 PM	4.6	4.9	15.0	
	7:00 PM	5.1	5.2	15.0	
	8:00 PM	5.7	5.6	15.0	
	9:00 PM	6.8	6.5	15.0	
	10:00 PM	8.8	8.3	17.6	
	11:00 PM	11.0	11.1	21.9	

Table 2
Hourly Average Turbidity Monitoring Data - Zone D
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Date	Time	Upstream	Downstream	Criterion	Comments
		NTU	NTU	NTU	
3/4/2008	12:00 AM	12.0	11.9	24.1	
	1:00 AM	11.4	11.4	22.3	
	2:00 AM	10.6	10.5	21.2	
	3:00 AM	9.4	9.4	18.8	
	4:00 AM	8.3	8.4	16.6	
	5:00 AM	7.1	7.1	15.0	
	6:00 AM	6.3	6.3	15.0	
	7:00 AM	5.9	5.7	15.0	
	8:00 AM	5.3	5.2	15.0	Began backfilling excavated west end of Area D.
	9:00 AM	4.9	4.8	15.0	
	10:00 AM	4.5	4.6	15.0	
	11:00 AM	4.3	4.2	15.0	
	12:00 PM	4.2	6.1	15.0	
	1:00 PM	4.0	4.1	15.0	Moved silt curtain and manhole risers to next removal area, eastern section of Area C.
	2:00 PM	3.7	4.6	15.0	
	3:00 PM	3.5	4.9	15.0	
	4:00 PM	3.3	14.8	15.0	4:30 - Left the site
	5:00 PM	3.1	13.9	15.0	
	6:00 PM	3.0	3.1	15.0	
	7:00 PM	2.9	2.9	15.0	
	8:00 PM	2.8	2.8	15.0	
	9:00 PM	2.8	2.7	15.0	
	10:00 PM	2.9	2.6	15.0	
	11:00 PM	2.8	2.7	15.0	

Table 3

Surface Water Monitoring Results
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Sample Location:	PM-SW-1D	PM-SW-2U	PM-SW-3U	PM-SW-4D	PM-SW-5U	PM-SW-6D	PM-SW-7D	PM-SW-8U	PM-SW-9D	PM-SW-10U	PM-SW-11U	PM-SW-12D
Zone:	A	A	A	A	A	A	B	B	B	B	B	B
Comment:	Downstream	Upstream	Upstream	Downstream	Upstream	Downstream	Downstream	Upstream	Downstream	Upstream	Upstream	Downstream
Date:	11/15/2007	11/15/2007	11/20/2007	11/20/2007	11/29/2007	11/29/2007	12/12/2007	12/12/2007	12/20/2007	12/20/2007	1/3/2008	1/3/2008
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Aroclor-1016	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.22)	ND(<0.22)	ND(<0.22)	ND(<0.22)
Aroclor-1221	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.22)	ND(<0.22)	ND(<0.22)	ND(<0.22)
Aroclor-1232	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.22)	ND(<0.22)	ND(<0.22)	ND(<0.22)
Aroclor-1242	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.22)	ND(<0.22)	ND(<0.22)	ND(<0.22)
Aroclor-1248	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.22)	ND(<0.22)	ND(<0.22)	ND(<0.22)
Aroclor-1254	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.22)	ND(<0.22)	ND(<0.22)	ND(<0.22)
Aroclor-1260	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.22)	ND(<0.22)	ND(<0.22)	ND(<0.22)
Total PCBs	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.22)	ND(<0.22)	ND(<0.22)	ND(<0.22)

Sample Location:	PM-SW-13D	PM-SW-14U	PM-SW-15D	PM-SW-16U	PM-SW-17D	PM-SW-18U	PM-SW-19D	PM-SW-20U	PM-SW-21U	PM-SW-22D
Zone:	B	B	D	D	D	D	C	C	C	C
Comment:	Downstream	Upstream	Downstream	Upstream	Downstream	Upstream	Downstream	Upstream	Upstream	Downstream
Date:	1/11/2008	1/11/2008	1/31/2008	1/31/2008	2/13/2008	2/13/2008	3/3/2008	3/3/2008	3/6/2008	3/6/2008
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Aroclor-1016	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)
Aroclor-1221	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)
Aroclor-1232	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)
Aroclor-1242	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)
Aroclor-1248	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)
Aroclor-1254	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)
Aroclor-1260	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)
Total PCBs	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)	ND(<0.2)

Note:

1. "ND" Indicates No-Detected Aroclors

Table 4
Wastewater Treatment System Sample Results
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Sample Location:	Influent	Intermediate	Effluent	Influent 2	Intermediate 2	Effluent 2	Effluent	Effluent Duplicate
Comment:								
Date:	1/14/2008	1/14/2008	1/14/2008	1/14/2008	1/14/2008	1/14/2008	3/19/2008	3/19/2008
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PCB Aroclors								
Aroclor-1016	ug/L	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)
Aroclor-1221	ug/L	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)
Aroclor-1232	ug/L	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)
Aroclor-1242	ug/L	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)
Aroclor-1248	ug/L	1.2	0.53	0.54	0.94	0.43	0.4	0.18 J
Aroclor-1254	ug/L	0.71	0.52	0.45	0.56	0.36	0.33	0.082 JP
Aroclor-1260	ug/L	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)
Total PCBs	ug/L	1.91	1.05	0.99	1.5	0.79	0.73	0.26 J
Miscellaneous								
Total Suspended Solids	mg/L	-	-	7	-	-	6	ND(<4.0)
Total Phosphorus	mg/L	-	-	0.48	-	-	0.29	0.22

Sample Location:	Influent	Effluent	Influent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Comment:									
Date:	3/28/2008	3/28/2008	3/31/2008	3/31/2008	4/3/2008	4/7/2008	6/16/2008	10/14/2008	10/30/2008
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
PCB Aroclors									
Aroclor-1016	ug/L	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.22)	ND(<0.20)	ND(<0.20)
Aroclor-1221	ug/L	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.22)	ND(<0.20)	ND(<0.20)
Aroclor-1232	ug/L	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.22)	ND(<0.20)	ND(<0.20)
Aroclor-1242	ug/L	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.22)	ND(<0.20)	ND(<0.20)
Aroclor-1248	ug/L	ND(<0.20)	ND(<0.20)	0.29	ND(<0.20)	ND(<0.20)	ND(<0.22)	ND(<0.20)	ND(<0.20)
Aroclor-1254	ug/L	0.11 JP	0.027 J	0.16 JP	ND(<0.20)	ND(<0.20)	ND(<0.22)	ND(<0.20)	ND(<0.20)
Aroclor-1260	ug/L	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.20)	ND(<0.22)	ND(<0.20)	ND(<0.20)
Total PCBs	ug/L	0.11 J	0.027 J	0.45 J	ND(<0.20)	ND(<0.20)	ND(<0.22)	ND(<0.20)	ND(<0.20)
Miscellaneous									
Total Suspended Solids	mg/L	77	ND(<4.0)	120	ND(<4.0)	ND(<4.0)	ND(<4.0)	ND(<4.0)	ND(<4.0)
Total Phosphorus	mg/L	0.3	0.14	0.46	0.12	0.11	0.07	0.1	0.02

Note:

1. "P" Indicates result from the highest of the two columns
2. "J" Indicates the analyte was positively identified; the quantitation is an estimate.
3. "ND" Indicates No-Detected Aroclors

Table 5
Disposal Sampling Results
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Sample Location:		PAD-1	PAD-2
Comment:			
Date:		4/8/2008	4/8/2008
PCB (EPA-8082)			
Aroclor-1016	ug/kg	ND(<706)	ND(<419)
Aroclor-1221	ug/kg	ND(<706)	ND(<419)
Aroclor-1232	ug/kg	ND(<706)	ND(<419)
Aroclor-1242	ug/kg	ND(<706)	ND(<419)
Aroclor-1248	ug/kg	2270	1970
Aroclor-1254	ug/kg	987	910
Aroclor-1260	ug/kg	ND(<706)	ND(<419)
Total PCBs	ug/kg	3480	3060
TCLP Pesticides (EPA-8081)			
gamma-BHC (Lindane)	ug/L	ND(<0.25)	ND(<0.25)
Chlordane (Technical)	ug/L	ND(<5.0)	ND(<5.0)
Endrin	ug/L	ND(<0.50)	ND(<0.50)
Heptachlor	ug/L	ND(<0.25)	ND(<0.25)
Heptachlor epoxide	ug/L	ND(<0.25)	ND(<0.25)
Methoxychlor	ug/L	ND(<2.5)	ND(<2.5)
Toxaphene	ug/L	ND(<15.0)	ND(<15.0)
TCLP Herbicides (EPA-8151)			
2,4-D	mg/L	ND(<0.02)	ND(<0.02)
2,4,5-TP (Silvex)	mg/L	ND(<0.02)	ND(<0.02)
TCLP Metals (EPA-6010)			
Arsenic	mg/L	ND(<1.0)	ND(<1.0)
Barium	mg/L	ND(<1.0)	ND(<1.0)
Cadmium	mg/L	ND(<0.25)	ND(<0.25)
Chromium	mg/L	ND(<0.25)	ND(<0.25)
Lead	mg/L	ND(<1.0)	ND(<1.0)
Selenium	mg/L	ND(<1.0)	ND(<1.0)
Silver	mg/L	ND(<0.25)	ND(<0.25)
Mercury (EPA-7470)	mg/L	ND(<0.20)	ND(<0.20)
TCLP SVOCs (EPA-8270)			
1,4-Dichlorobenzene	ug/L	ND(<125)	ND(<125)
2,4-Dinitrotoluene	ug/L	ND(<125)	ND(<125)
Hexachloro-1,3-butadiene	ug/L	ND(<250)	ND(<250)
Hexachlorobenzene	ug/L	ND(<125)	ND(<125)
Hexachloroethane	ug/L	ND(<125)	ND(<125)
2-Methylphenol(o-Cresol)	ug/L	ND(<125)	ND(<125)
3&4-Methylphenol(m&p Cresol)	ug/L	ND(<125)	ND(<125)
Nitrobenzene	ug/L	ND(<125)	ND(<125)
Pentachlorophenol	ug/L	ND(<250)	ND(<250)
Pyridine	ug/L	ND(<125)	ND(<125)
2,4,5-Trichlorophenol	ug/L	ND(<125)	ND(<125)
2,4,6-Trichlorophenol	ug/L	ND(<125)	ND(<125)
TCLP VOCs (EPA-8260)			
Benzene	ug/L	ND(<10.0)	ND(<10.0)
2-Butanone (MEK)	ug/L	ND(<50.0)	ND(<50.0)
Carbon Tetrachloride	ug/L	ND(<10.0)	ND(<10.0)
Chlorobenzene	ug/L	ND(<10.0)	ND(<10.0)
Chloroform	ug/L	ND(<10.0)	ND(<10.0)
1,2-Dichloroethane	ug/L	ND(<10.0)	ND(<10.0)
1,1-Dichloroethene	ug/L	ND(<10.0)	ND(<10.0)
Tetrachloroethene	ug/L	ND(<10.0)	ND(<10.0)
Tichloroethene	ug/L	ND(<10.0)	ND(<10.0)
Vinyl Chloride	ug/L	ND(<10.0)	ND(<10.0)
Misc. Parameters			
Flashpoint (EPA 1010)	Deg F	>210	>210
pH (EPA 9045)	-	12.2	11.7
Paint Filter (EPA 9095)	-	Pass	Pass
Reactive Cyanide (SW846)	mg/kg dry	0.026 J	ND(<0.018)
Reactive Sulfide (SW846)	mg/kg dry	ND(<35.2)	ND(<33.7)
Chlorine as Cl (ASTM D808)	% Wt. Dry	0.019	0.018

Note:

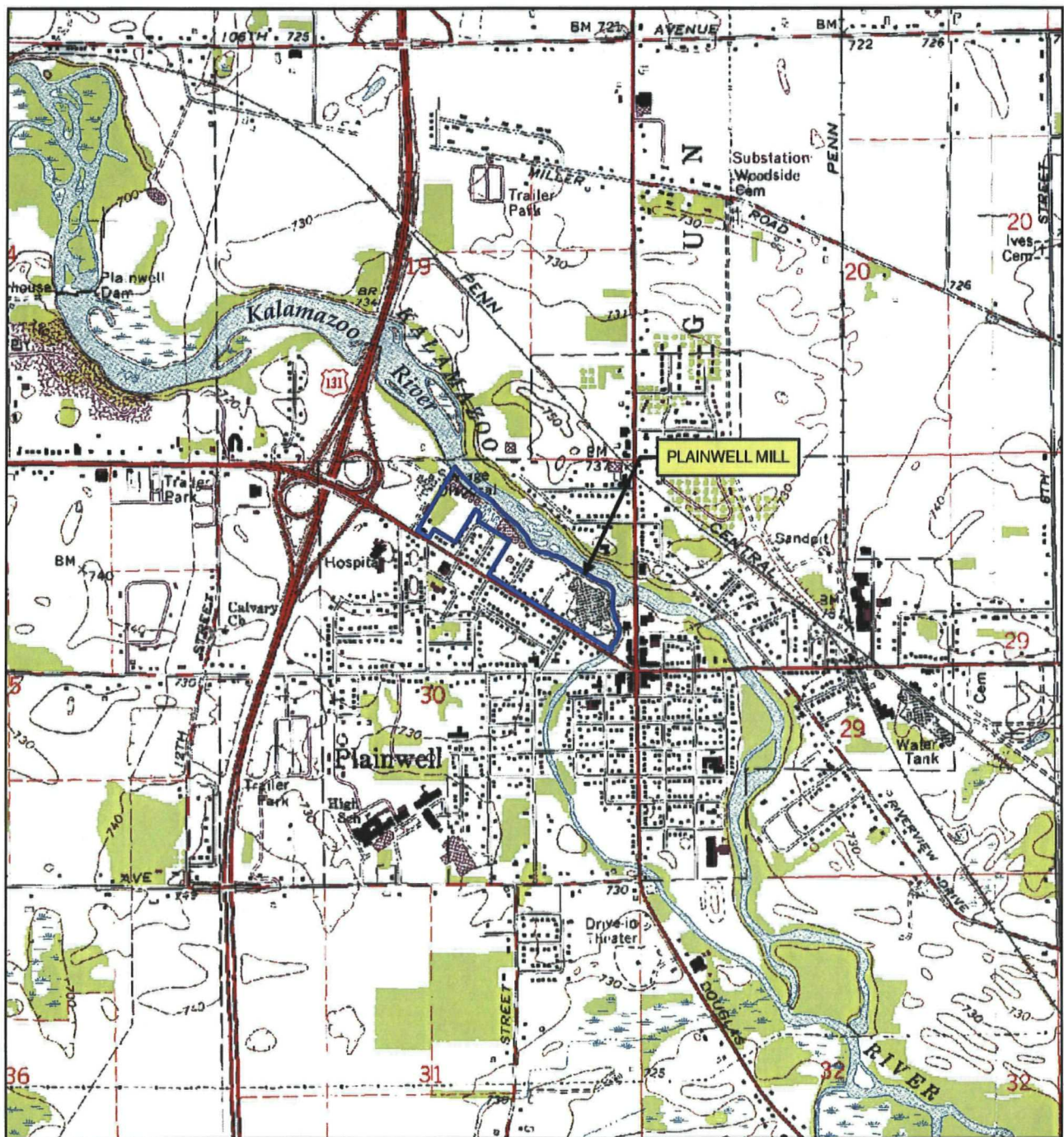
1. "J" Indicates the analyte was positively identified; the quantitation is an estimate.
2. "ND" Indicates No-Detected Aroclors

Table 6
Waste Management Transportation and Disposal Summary
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Ticket Date	Ticket ID	Customer ID	Generator	Manifest	Profile	Origin	Tons
10/29/2008	118906	1065	129-WEYERHAEUSE	293019	101302MI	ALLEGAN CO	50.05
10/29/2008	118912	1065	129-WEYERHAEUSE	293020	101302MI	ALLEGAN CO	44.76
10/29/2008	118918	1065	129-WEYERHAEUSE	293021	101302MI	ALLEGAN CO	59.12
10/29/2008	118941	1065	129-WEYERHAEUSE	293022	101302MI	ALLEGAN CO	55.69
10/29/2008	118959	1065	129-WEYERHAEUSE	293024	101302MI	ALLEGAN CO	58.38
10/29/2008	118990	1065	129-WEYERHAEUSE	293023	101302MI	ALLEGAN CO	50.53
10/29/2008	119017	1065	129-WEYERHAEUSE	293025	101302MI	ALLEGAN CO	53.33
10/29/2008	119023	1065	129-WEYERHAEUSE	293026	101302MI	ALLEGAN CO	64.6
10/29/2008	119033	1065	129-WEYERHAEUSE	293027	101302MI	ALLEGAN CO	49.04
10/30/2008	119073	1065	129-WEYERHAEUSE	293028	101302MI	ALLEGAN CO	49.93
10/30/2008	119076	1065	129-WEYERHAEUSE	293029	101302MI	ALLEGAN CO	56.31
10/30/2008	119081	1065	129-WEYERHAEUSE	293030	101302MI	ALLEGAN CO	46.96
10/30/2008	119111	1065	129-WEYERHAEUSE	293031	101302MI	ALLEGAN CO	54.91
10/30/2008	119114	1065	129-WEYERHAEUSE	293032	101302MI	ALLEGAN CO	48.46
10/30/2008	119119	1065	129-WEYERHAEUSE	293033	101302MI	ALLEGAN CO	45.27
10/30/2008	119124	1065	129-WEYERHAEUSE	293034	101302MI	ALLEGAN CO	45.21
10/30/2008	119152	1065	129-WEYERHAEUSE	293035	101302MI	ALLEGAN CO	53.85
10/30/2008	119154	1065	129-WEYERHAEUSE	293036	101302MI	ALLEGAN CO	59.98
10/30/2008	119160	1065	129-WEYERHAEUSE	293037	101302MI	ALLEGAN CO	46.05
10/30/2008	119170	1065	129-WEYERHAEUSE	293038	101302MI	ALLEGAN CO	50.5
10/31/2008	119223	1065	129-WEYERHAEUSE	293039	101302MI	ALLEGAN CO	52.52
10/31/2008	119226	1065	129-WEYERHAEUSE	293040	101302MI	ALLEGAN CO	45.42
10/31/2008	119230	1065	129-WEYERHAEUSE	293041	101302MI	ALLEGAN CO	50.69
10/31/2008	119233	1065	129-WEYERHAEUSE	293042	101302MI	ALLEGAN CO	58.5
10/31/2008	119255	1065	129-WEYERHAEUSE	293043	101302MI	ALLEGAN CO	54.02
10/31/2008	119257	1065	129-WEYERHAEUSE	293044	101302MI	ALLEGAN CO	50.02
10/31/2008	119264	1065	129-WEYERHAEUSE	293045	101302MI	ALLEGAN CO	49.78
10/31/2008	119268	1065	129-WEYERHAEUSE	293046	101302MI	ALLEGAN CO	58.03
10/31/2008	119281	1065	129-WEYERHAEUSE	293047	101302MI	ALLEGAN CO	56.44
10/31/2008	119296	1065	129-WEYERHAEUSE	293048	101302MI	ALLEGAN CO	49.41
10/31/2008	119303	1065	129-WEYERHAEUSE	293049	101302MI	ALLEGAN CO	52.64
10/31/2008	119311	1065	129-WEYERHAEUSE	293050	101302MI	ALLEGAN CO	57.98
10/31/2008	119321	1065	129-WEYERHAEUSE	293051	101302MI	ALLEGAN CO	52.08
11/3/2008	119451	1065	129-WEYERHAEUSE	293052	101302MI	ALLEGAN CO	51.02
11/3/2008	119452	1065	129-WEYERHAEUSE	293053	101302MI	ALLEGAN CO	57.03
11/3/2008	119456	1065	129-WEYERHAEUSE	293054	101302MI	ALLEGAN CO	45.63
11/3/2008	119462	1065	129-WEYERHAEUSE	293055	101302MI	ALLEGAN CO	50.26
11/3/2008	119486	1065	129-WEYERHAEUSE	293056	101302MI	ALLEGAN CO	55.66
11/3/2008	119494	1065	129-WEYERHAEUSE	293057	101302MI	ALLEGAN CO	58.16
11/3/2008	119506	1065	129-WEYERHAEUSE	293058	101302MI	ALLEGAN CO	50.35
11/3/2008	119511	1065	129-WEYERHAEUSE	293059	101302MI	ALLEGAN CO	50.42
11/3/2008	119535	1065	129-WEYERHAEUSE	293060	101302MI	ALLEGAN CO	48.4
11/3/2008	119543	1065	129-WEYERHAEUSE	293061	101302MI	ALLEGAN CO	56.62
11/3/2008	119553	1065	129-WEYERHAEUSE	293062	101302MI	ALLEGAN CO	49.56
11/3/2008	119559	1065	129-WEYERHAEUSE	293063	101302MI	ALLEGAN CO	49.46
11/3/2008	119581	1065	129-WEYERHAEUSE	293064	101302MI	ALLEGAN CO	54.81
11/4/2008	119605	1065	129-WEYERHAEUSE	293065	101302MI	ALLEGAN CO	55.57
11/4/2008	119610	1065	129-WEYERHAEUSE	293066	101302MI	ALLEGAN CO	47.91
11/4/2008	119613	1065	129-WEYERHAEUSE	293067	101302MI	ALLEGAN CO	46.94
11/4/2008	119620	1065	129-WEYERHAEUSE	293068	101302MI	ALLEGAN CO	47.21

Table 6
Waste Management Transportation and Disposal Summary
Former Plainwell Mill Banks Emergency Action - Plainwell, MI

Ticket Date	Ticket ID	Customer ID	Generator	Manifest	Profile	Origin	Tons
11/4/2008	119647	1065	129-WEYERHAEUSE	293069	101302MI	ALLEGAN CO	50.74
11/4/2008	119654	1065	129-WEYERHAEUSE	293070	101302MI	ALLEGAN CO	51.25
11/4/2008	119660	1065	129-WEYERHAEUSE	293071	101302MI	ALLEGAN CO	44.24
11/4/2008	119665	1065	129-WEYERHAEUSE	293072	101302MI	ALLEGAN CO	49.63
11/4/2008	119686	1065	129-WEYERHAEUSE	293073	101302MI	ALLEGAN CO	52.69
11/4/2008	119693	1065	129-WEYERHAEUSE	293074	101302MI	ALLEGAN CO	50.18
11/4/2008	119700	1065	129-WEYERHAEUSE	293075	101302MI	ALLEGAN CO	42.53
11/4/2008	119706	1065	129-WEYERHAEUSE	293076	101302MI	ALLEGAN CO	48.06
11/4/2008	119738	1065	129-WEYERHAEUSE	293077	101302MI	ALLEGAN CO	55.47
11/4/2008	119739	1065	129-WEYERHAEUSE	293078	101302MI	ALLEGAN CO	50.2
11/4/2008	119742	1065	129-WEYERHAEUSE	293079	101302MI	ALLEGAN CO	47.15
11/4/2008	119747	1065	129-WEYERHAEUSE	293080	101302MI	ALLEGAN CO	53.01
11/5/2008	119778	1065	129-WEYERHAEUSE	293081	101302MI	ALLEGAN CO	55.19
11/5/2008	119785	1065	129-WEYERHAEUSE	293082	101302MI	ALLEGAN CO	59.16
11/5/2008	119789	1065	129-WEYERHAEUSE	293083	101302MI	ALLEGAN CO	53.65
11/5/2008	119817	1065	129-WEYERHAEUSE	293084	101302MI	ALLEGAN CO	57.71
11/5/2008	119824	1065	129-WEYERHAEUSE	293085	101302MI	ALLEGAN CO	55.96
11/5/2008	119829	1065	129-WEYERHAEUSE	293086	101302MI	ALLEGAN CO	61.59
11/5/2008	119835	1065	129-WEYERHAEUSE	293087	101302MI	ALLEGAN CO	54.14
11/5/2008	119860	1065	129-WEYERHAEUSE	293088	101302MI	ALLEGAN CO	60.93
11/5/2008	119868	1065	129-WEYERHAEUSE	293089	101302MI	ALLEGAN CO	54.88
11/5/2008	119879	1065	129-WEYERHAEUSE	293090	101302MI	ALLEGAN CO	70.79
11/6/2008	119940	1065	129-WEYERHAEUSE	293091	101302MI	ALLEGAN CO	59.74
11/6/2008	119941	1065	129-WEYERHAEUSE	293092	101302MI	ALLEGAN CO	60.41
11/6/2008	119947	1065	129-WEYERHAEUSE	293093	101302MI	ALLEGAN CO	55.84
11/6/2008	119953	1065	129-WEYERHAEUSE	293094	101302MI	ALLEGAN CO	50.24
11/6/2008	119968	1065	129-WEYERHAEUSE	293095	101302MI	ALLEGAN CO	48.47
11/6/2008	119970	1065	129-WEYERHAEUSE	293096	101302MI	ALLEGAN CO	51.59
11/6/2008	119972	1065	129-WEYERHAEUSE	293097	101302MI	ALLEGAN CO	50.84
11/6/2008	119984	1065	129-WEYERHAEUSE	293098	101302MI	ALLEGAN CO	56.11
11/6/2008	119998	1065	129-WEYERHAEUSE	293099	101302MI	ALLEGAN CO	60.07
11/6/2008	120000	1065	129-WEYERHAEUSE	293100	101302MI	ALLEGAN CO	53.39
11/6/2008	120005	1065	129-WEYERHAEUSE	293101	101302MI	ALLEGAN CO	49.14
11/6/2008	120027	1065	129-WEYERHAEUSE	293102	101302MI	ALLEGAN CO	52.73
11/6/2008	120032	1065	129-WEYERHAEUSE	293103	101302MI	ALLEGAN CO	51.43
11/6/2008	120035	1065	129-WEYERHAEUSE	293104	101302MI	ALLEGAN CO	53.49
11/7/2008	120162	1065	129-WEYERHAEUSE	293105	101302MI	ALLEGAN CO	56.37
11/7/2008	120163	1065	129-WEYERHAEUSE	293106	101302MI	ALLEGAN CO	60.08
11/7/2008	120174	1065	129-WEYERHAEUSE	293107	101302MI	ALLEGAN CO	49.66
Material Total	89						4704.22



LEGEND

— PROPERTY BOUNDARIES



0 1,000 2,000 4,000
FEET

1 INCH = 2,000 FEET

1:24,000

PROJECT LOCATION

BASE MAP FROM USGS 7.5 MINUTE QUADRANGLE, OSTEGO, 1967, REVISED 1973.

RMT

150 N. Patrick Blvd., Suite 180
Brookfield, WI 53045
Phone: 262-879-1212
Fax: 262-879-1220

SITE LOCATION MAP

PLAINWELL MILL BANKS EMERGENCY ACTION
PLAINWELL MILL
PLAINWELL, MICHIGAN

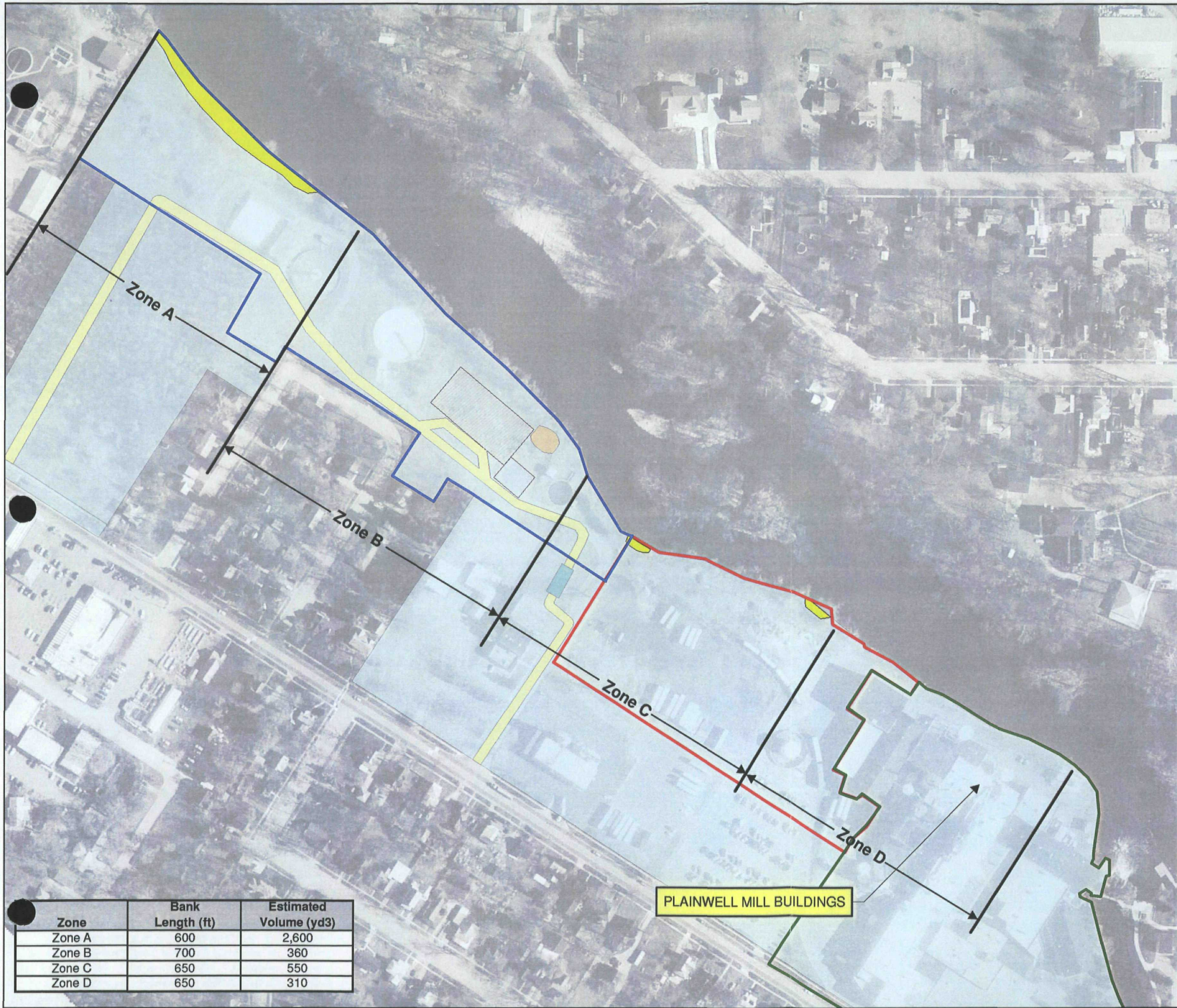
DRAWN BY: PYLKAS E

APPROVED BY:

PROJ. NO.: 00-05130.07

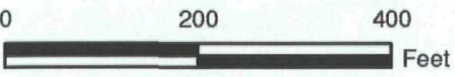
FILE NO.: 51300701

DATE: JANUARY 2009



LEGEND

- FORMER DEWATERING LAGOON AREA
- NORTHCENTRAL PORTION OF THE SITE
- PLAINWELL MILL BUILDINGS AREA
- PROPERTY LIMITS
- FLOODPLAIN AREAS
- SEDIMENT AND WATER TREATMENT AREAS**
- EXCESS MATERIAL STOCKPILE
- HAUL ROAD
- SEDIMENT DEWATERING AREA
- TRUCK WASH
- WASTE WATER TREATMENT AREA



1 inch = 200 feet

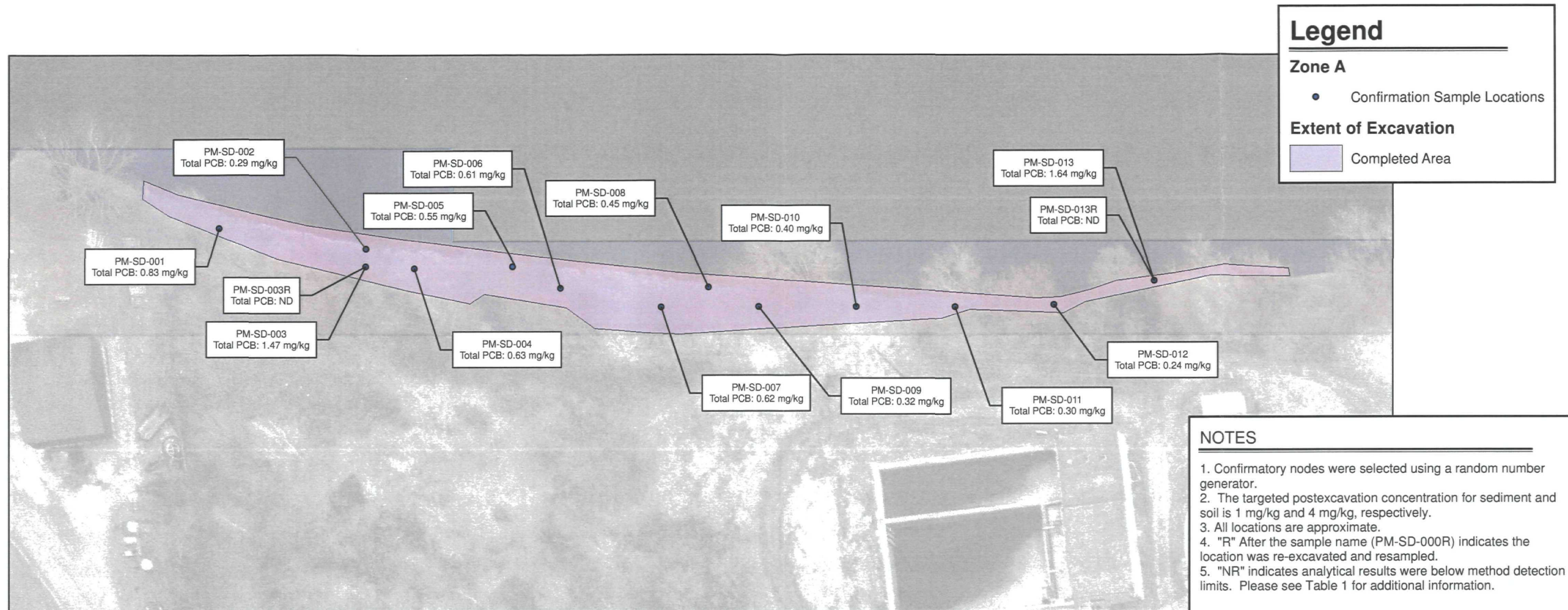


Zone	Bank Length (ft)	Estimated Volume (yd3)
Zone A	600	2,600
Zone B	700	360
Zone C	650	550
Zone D	650	310

PROJECT: WEYERHAEUSER COMPANY PLAINWELL MILL EMERGENCY ACTION		
SHEET TITLE: PROJECT SITE PLAN PLAINWELL MILL PROPERTY AND RIVERBANK		
DRAWN BY: PYLKASE	SCALE: AS NOTED	PROJ. NO.: 00-05130.0
CHECKED BY:		FILE NO.: 51300702.mxd
APPROVED BY:	DATE PRINTED: 1/28/2009	FIGURE 2
DATE: JANUARY 2009		

RMT

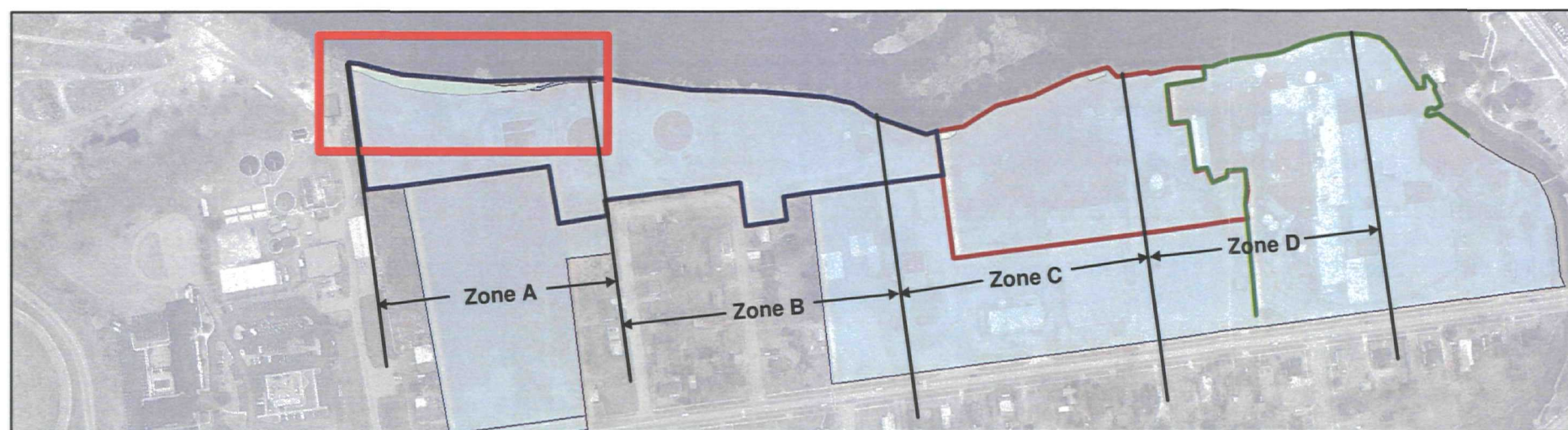
150 N. Patrick Blvd., Suite 180
Brookfield, WI 53045-5854
Phone: 262-879-1212
Fax: 262-879-1220



NOTES

1. Confirmatory nodes were selected using a random number generator.
2. The targeted postexcavation concentration for sediment and soil is 1 mg/kg and 4 mg/kg, respectively.
3. All locations are approximate.
4. "R" After the sample name (PM-SD-000R) indicates the location was re-excavated and resampled.
5. "NR" indicates analytical results were below method detection limits. Please see Table 1 for additional information.

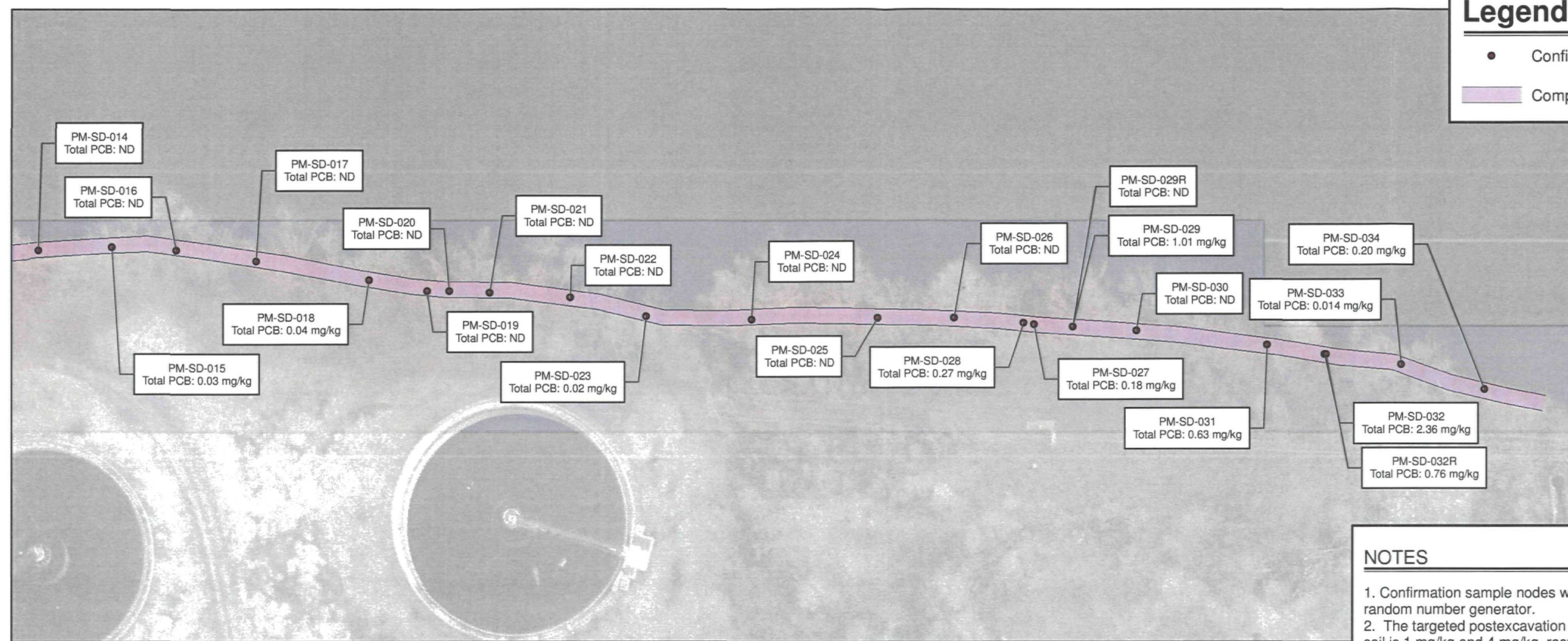
0 12.5 25 50
Feet
1 inch = 50 feet



PROJECT: WEYERHAEUSER COMPANY PLAINWELL MILL EMERGENCY ACTION			
SHEET TITLE: ZONE A CONFIRMATORY SAMPLING LOCATIONS PLAINWELL MILL BANKS			
DRAWN BY: PYLKASE	SCALE: AS NOTED	PROJ. NO.: 00-05130.07	
CHECKED BY:		FILE NO.: 51300704.mxd	
APPROVED BY:	DATE PRINTED: 1/28/2009	FIGURE 4	
DATE: JANUARY 2009			

RMT

150 N. Patrick Blvd., Suite 180
Brookfield, WI 53045-5854
Phone: 262-879-1212
Fax: 262-879-1220



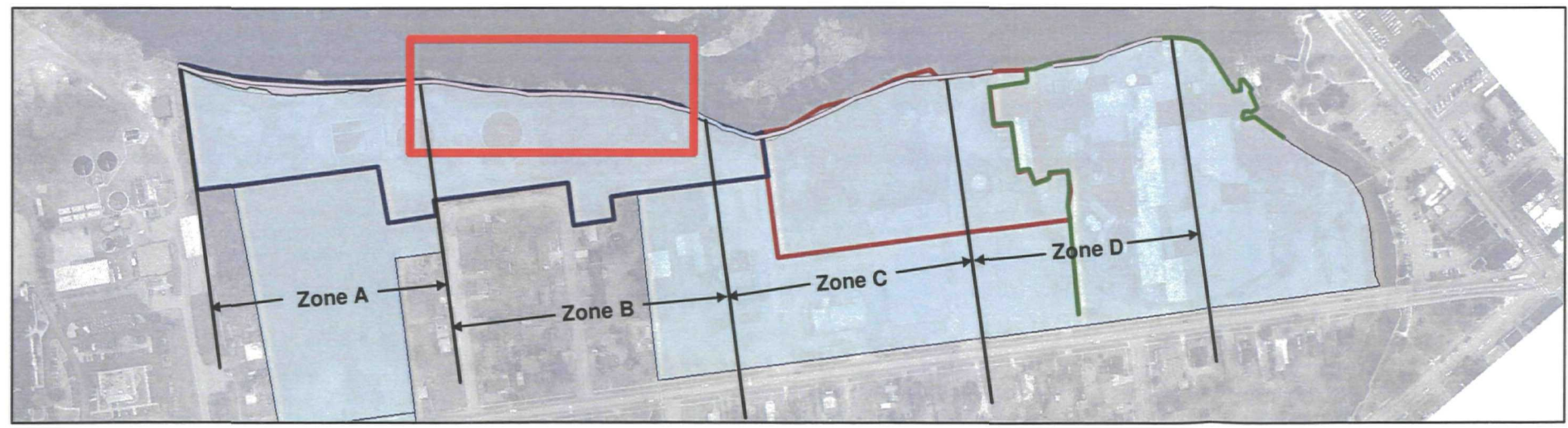
Legend

- Confirmation Sample Location
- Completed Excavation

NOTES

1. Confirmation sample nodes were selected using a random number generator.
2. The targeted postexcavation concentration for sediment and soil is 1 mg/kg and 4 mg/kg, respectively.
3. All locations are approximate.
4. "R" After the sample name PM-SD-000R indicates the location was re-excavated and resampled.
5. "ND" indicates analytical results were below method detection limits. Please see Table 1 for additional information.

0 12.5 25 50 Feet
1 inch = 50 feet




PROJECT: WEYERHAEUSER COMPANY PLAINWELL MILL EMERGENCY ACTION			
SHEET TITLE: ZONE B CONFIRMATION SAMPLING LOCATIONS PLAINWELL MILL BANKS			
DRAWN BY: PYLKASE	SCALE: AS NOTED	PROJ. NO.: 00-05130.07	
CHECKED BY:		FILE NO.: 51300705.mxd	
APPROVED BY:	DATE PRINTED: 1/28/2009	FIGURE 5	
DATE: JANUARY 2009			

RMT

150 N. Patrick Blvd., Suite 180
Brookfield, WI 53045-5854
Phone: 262-879-1212
Fax: 262-879-1220

Legend

 Former Transformer Extent


Zone D - Confirmation Samples


• Sample Locations

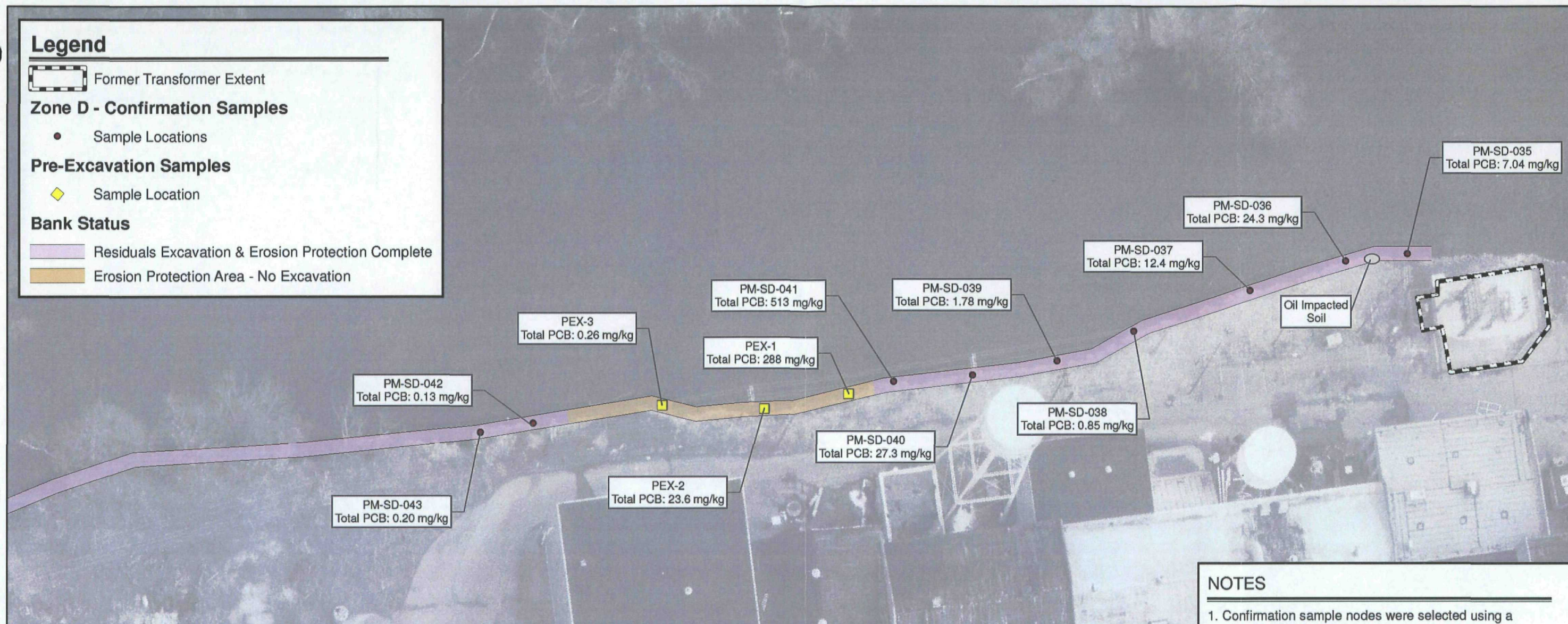
Pre-Excavation Samples

◆ Sample Location

Bank Status

 Residuals Excavation & Erosion Protection Complete

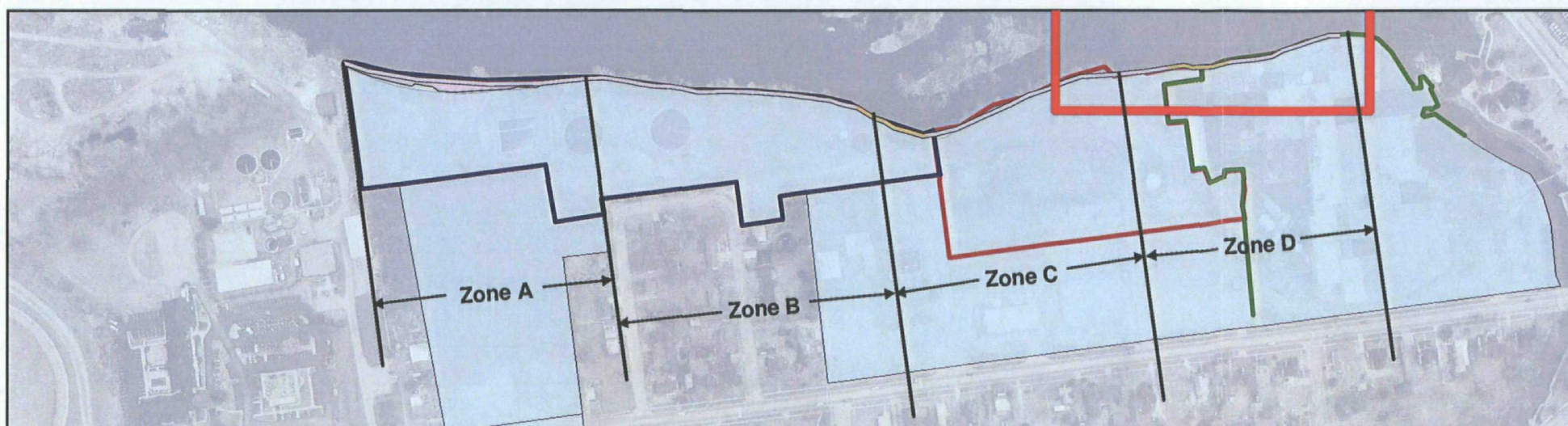
 Erosion Protection Area - No Excavation



NOTES

1. Confirmation sample nodes were selected using a random number generator.
2. All locations are approximate.
3. "PEX" denotes samples collected prior to excavation

0 12.5 25 50
Feet
1 inch = 50 feet








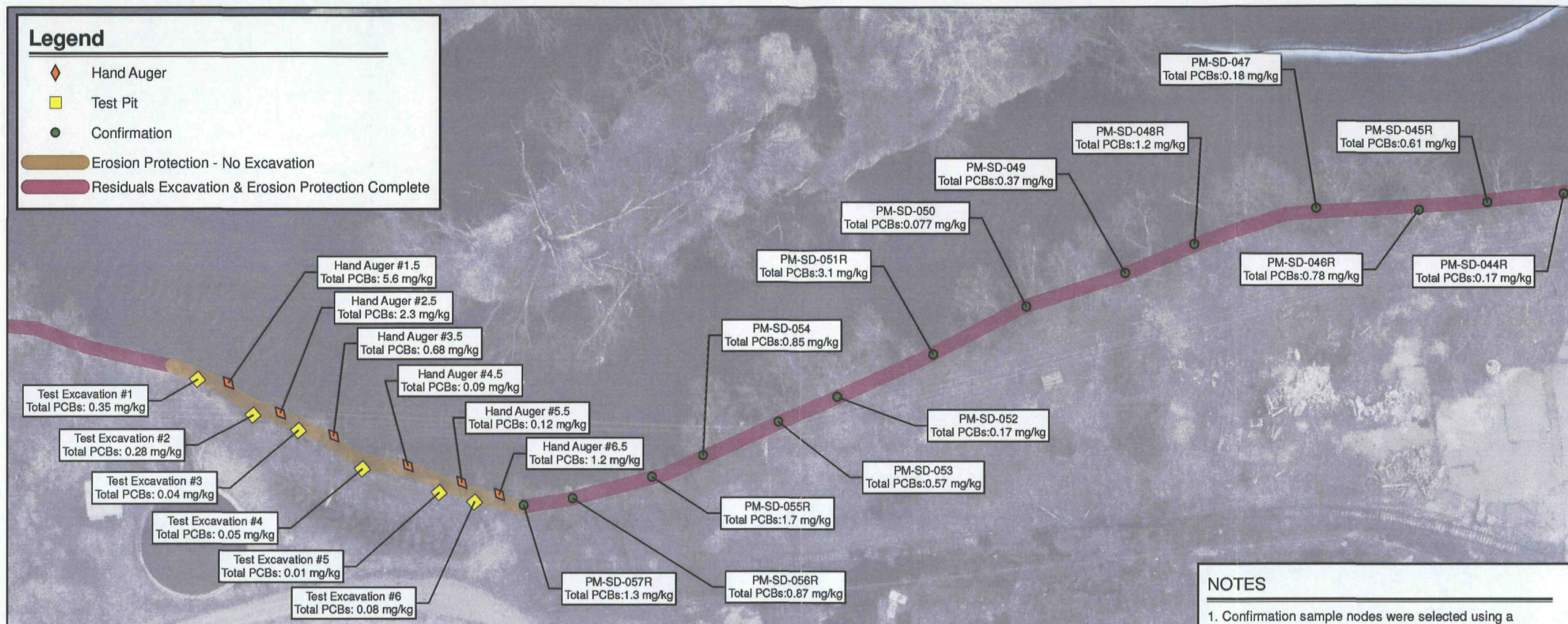
PROJECT: WEYERHAEUSER COMPANY PLAINWELL MILL EMERGENCY ACTION			
SHEET TITLE: ZONE D CONFIRMATION SAMPLING LOCATIONS PLAINWELL MILL BANKS			
DRAWN BY:	SCALE: AS NOTED	PROJ. NO.:	00-05130.07
CHECKED BY:		FILE NO.:	51300706.mxd
APPROVED BY:	DATE PRINTED:	FIGURE 6	
DATE: JANUARY 2009	1/28/2009		

RMT

150 N. Patrick Blvd., Suite 180
Brookfield, WI 53045-5854
Phone: 262-879-1212
Fax: 262-879-1220

Legend

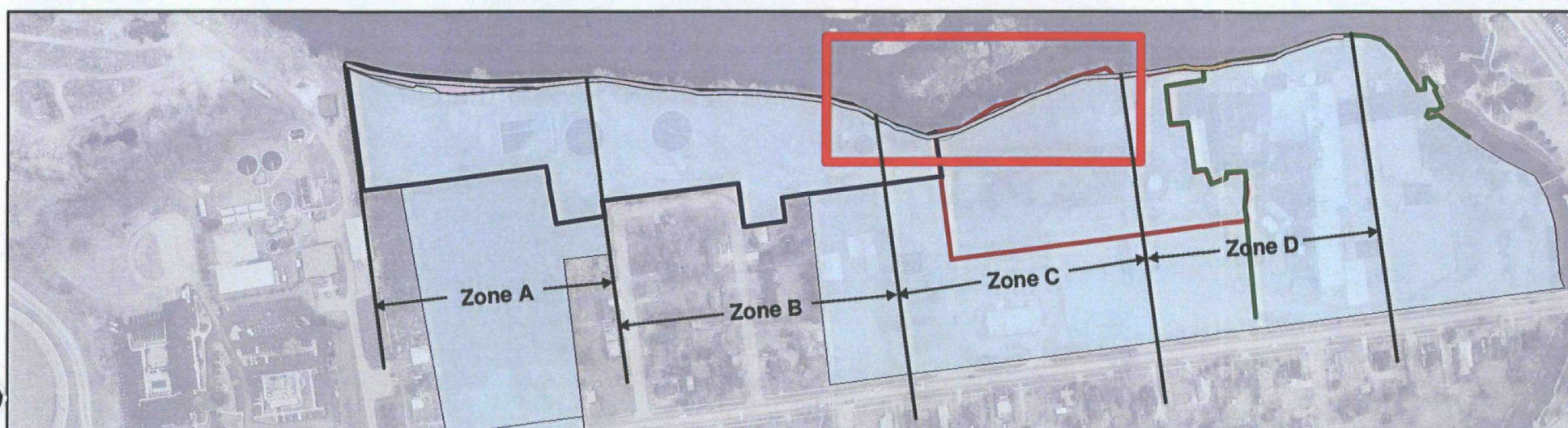
-  Hand Auger
-  Test Pit
-  Confirmation
-  Erosion Protection - No Excavation
-  Residuals Excavation & Erosion Protection Complete



NOTES

1. Confirmation sample nodes were selected using a random number generator.
2. All locations are approximate.

0 12.5 25 50
Feet
1 inch = 50 feet

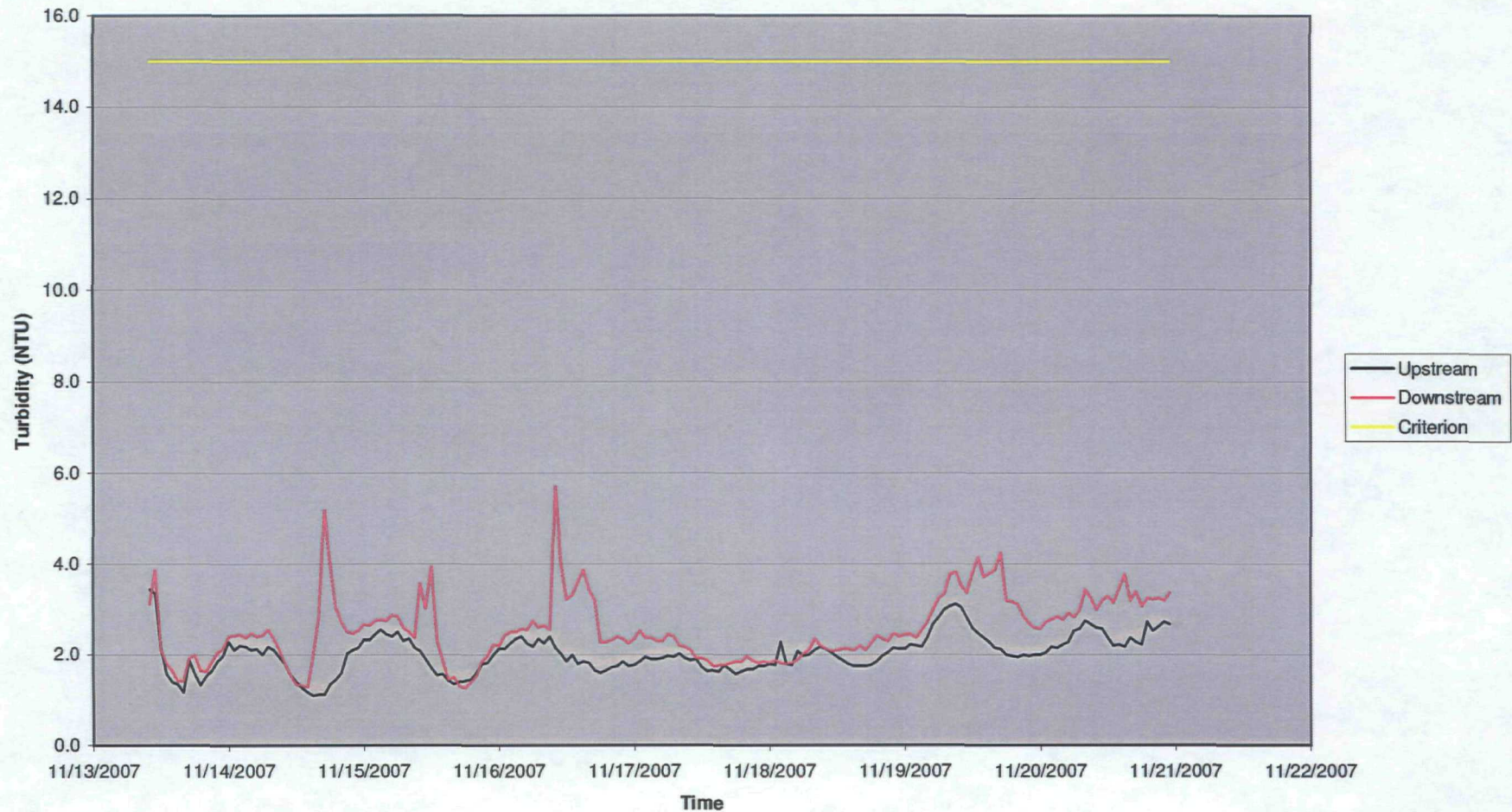


PROJECT: WEYERHAEUSER COMPANY PLAINWELL MILL EMERGENCY ACTION			
SHEET TITLE: ZONE C CONFIRMATION SAMPLING LOCATIONS PLAINWELL MILL BANKS			
DRAWN BY:	SCALE: AS NOTED	PROJ. NO.:	00-05130.07
CHECKED BY:		FILE NO.:	51300707
APPROVED BY:	DATE PRINTED: 1/28/2009	FIGURE 7	
DATE: JANUARY 2009			

RMT

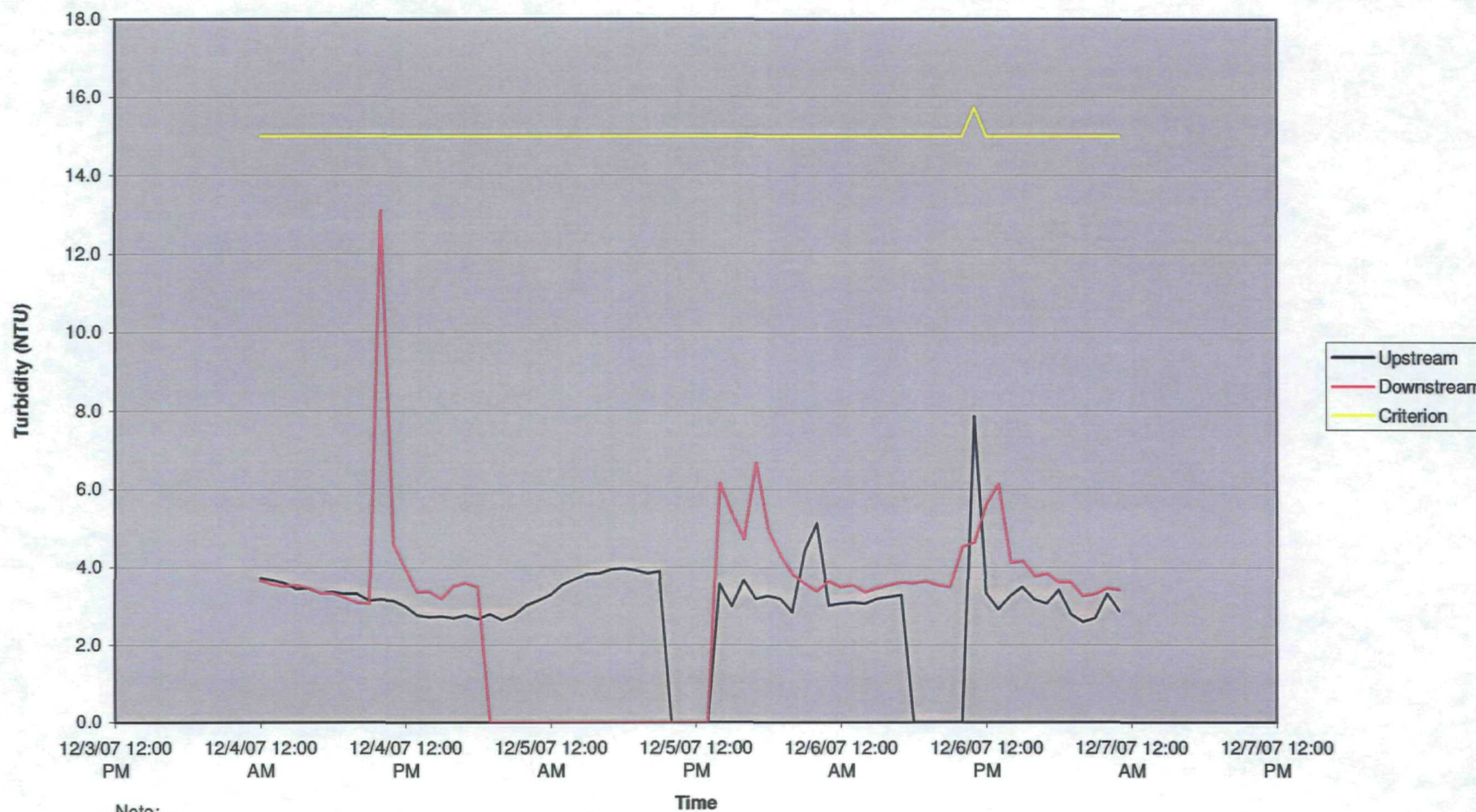
150 N. Patrick Blvd., Suite 180
Brookfield, WI 53045-5854
Phone: 262-879-1212
Fax: 262-879-1220

Figure 8-1
Turbidity Data - Zone A: 11/13/2007 to 11/20/2007
Former Plainwell Mill Banks Emergency Action - Plainwell, MI



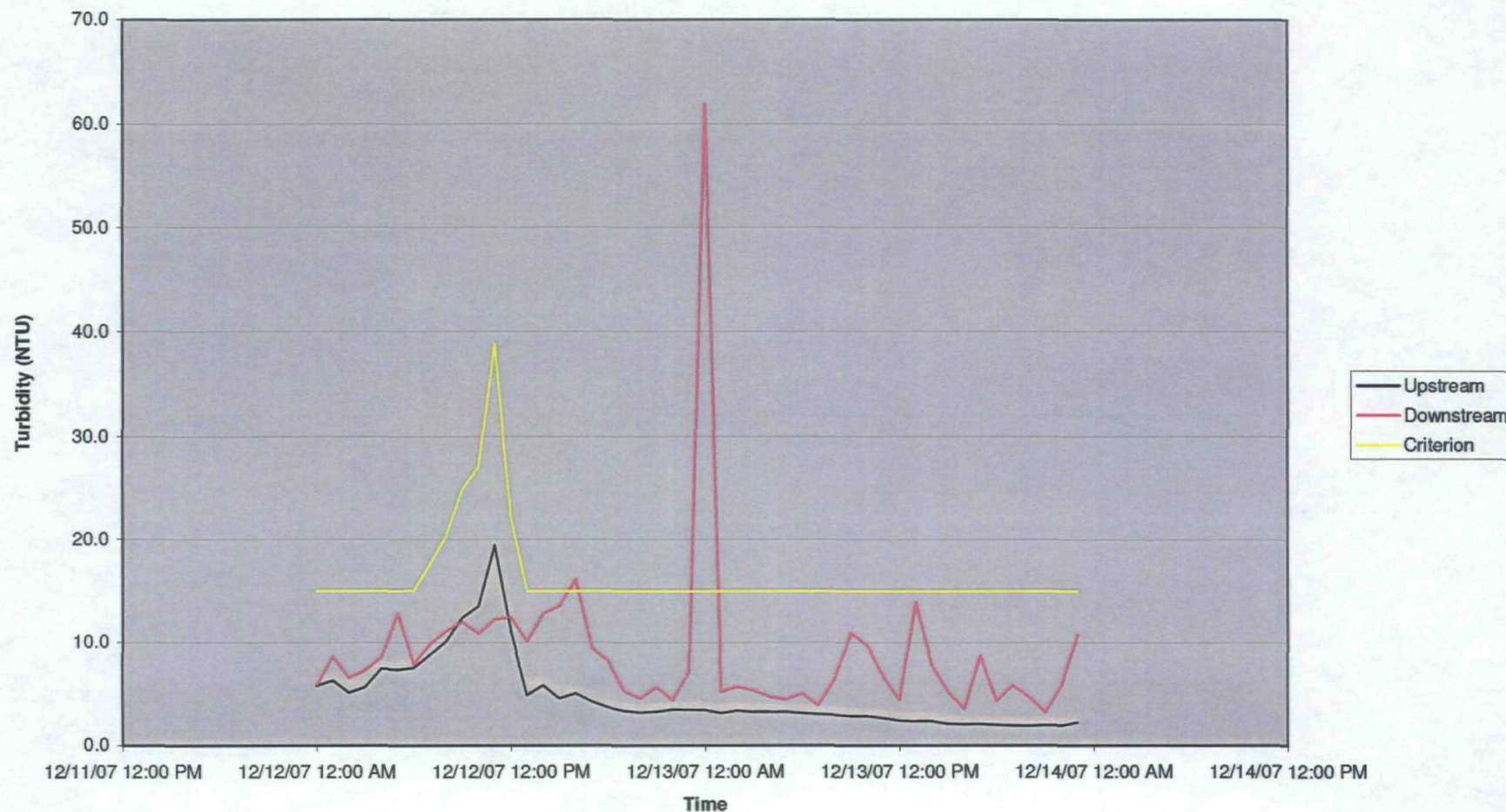
Note:
Actions taken regarding exceedances are explained on Table 2.

Figure 8-2
Turbidity Data - Zone A: 12/4/2007 to 12/6/2007
Former Plainwell Mill Banks Emergency Action - Plainwell, MI



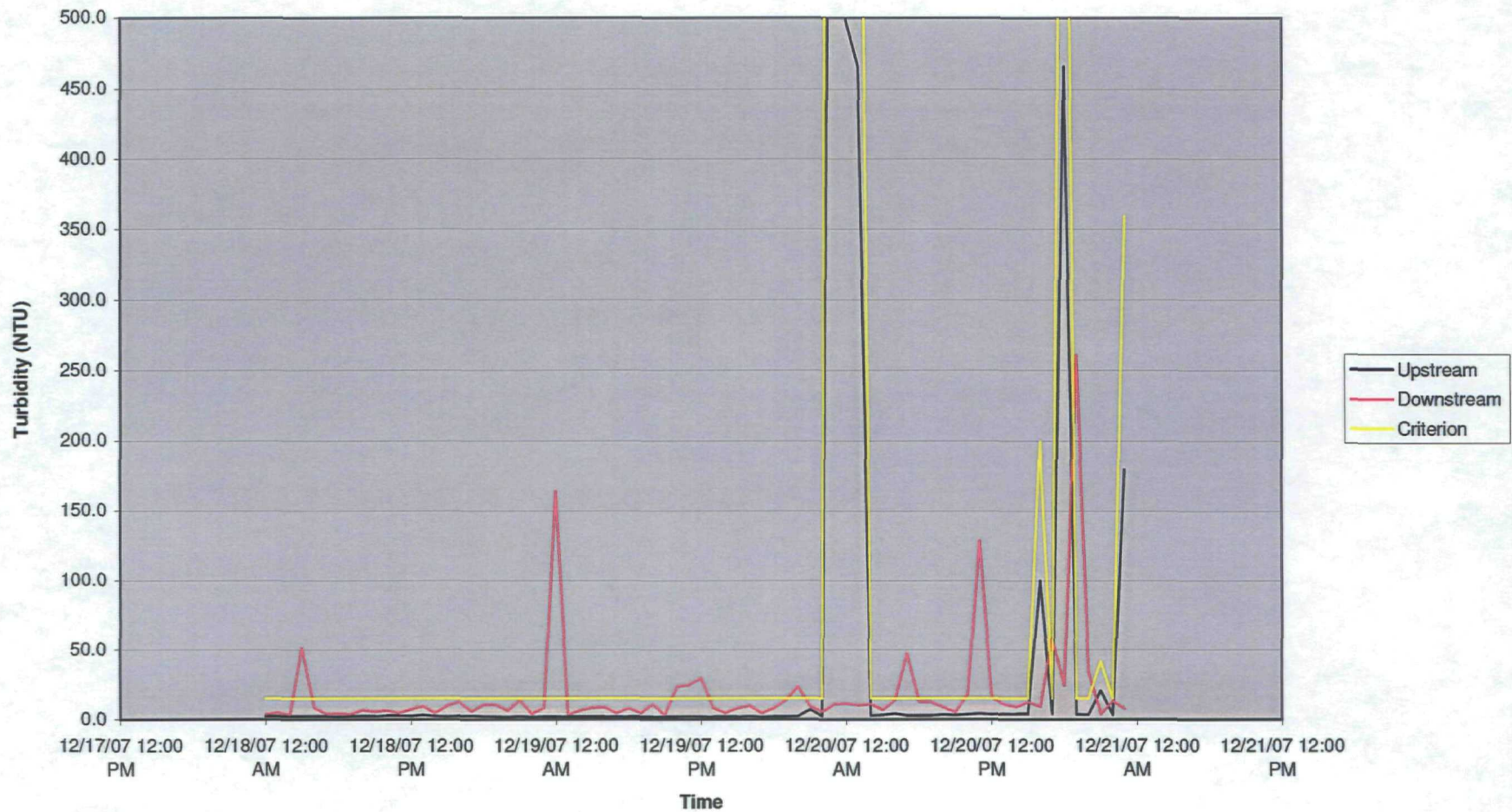
Note:
 Actions taken regarding exceedances are explained on Table 2.

Figure 8-3
Turbidity Data - Zone B: 12/12/2007 to 12/13/2007
Former Plainwell Mill Banks Emergency Action - Plainwell, MI



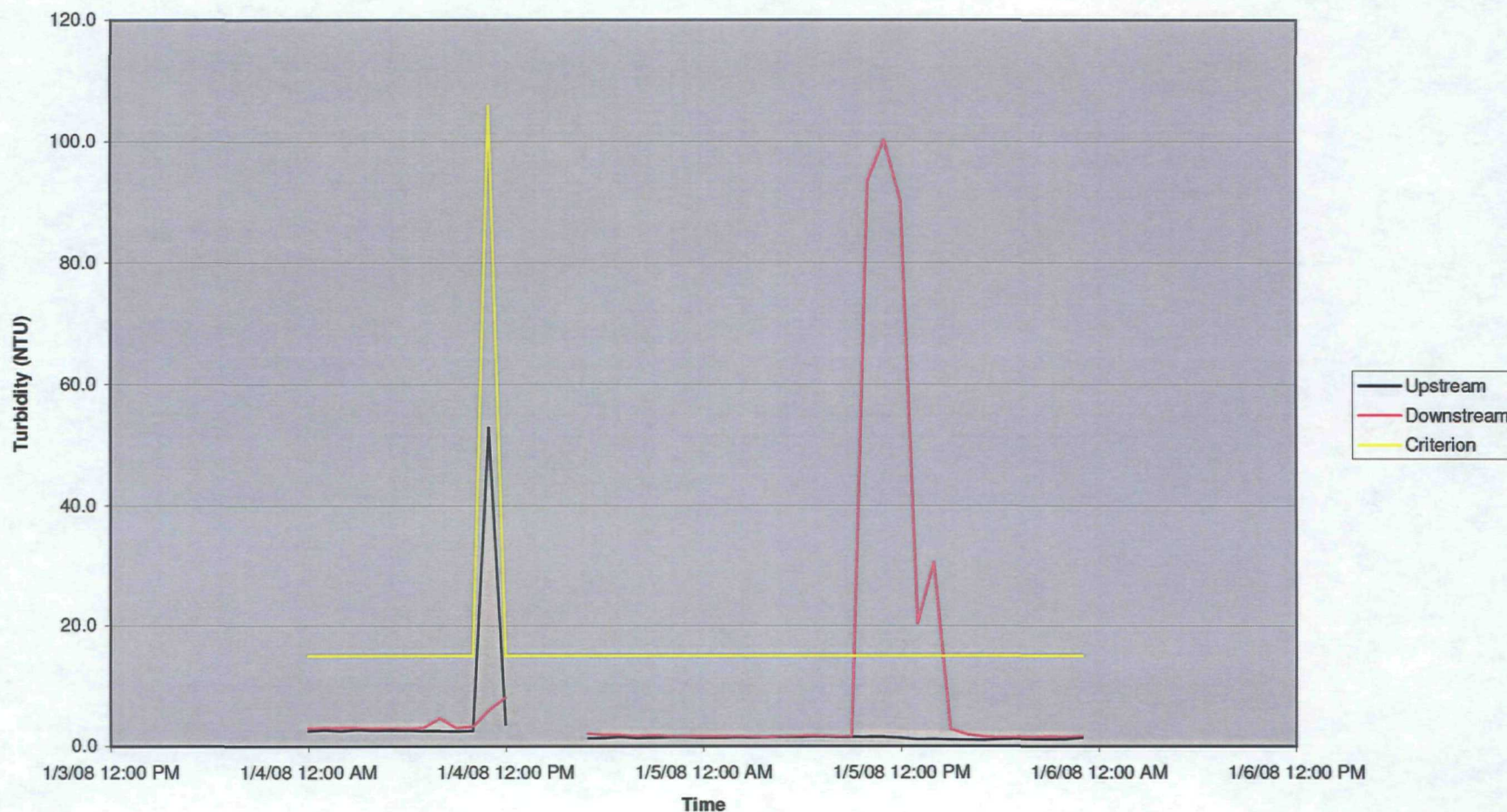
Note:
 Actions taken regarding exceedances are explained on Table 2.

Figure 8-4
Turbidity Data - Zone B: 12/18/2007 to 12/20/2007
Former Plainwell Mill Banks Emergency Action - Plainwell, MI



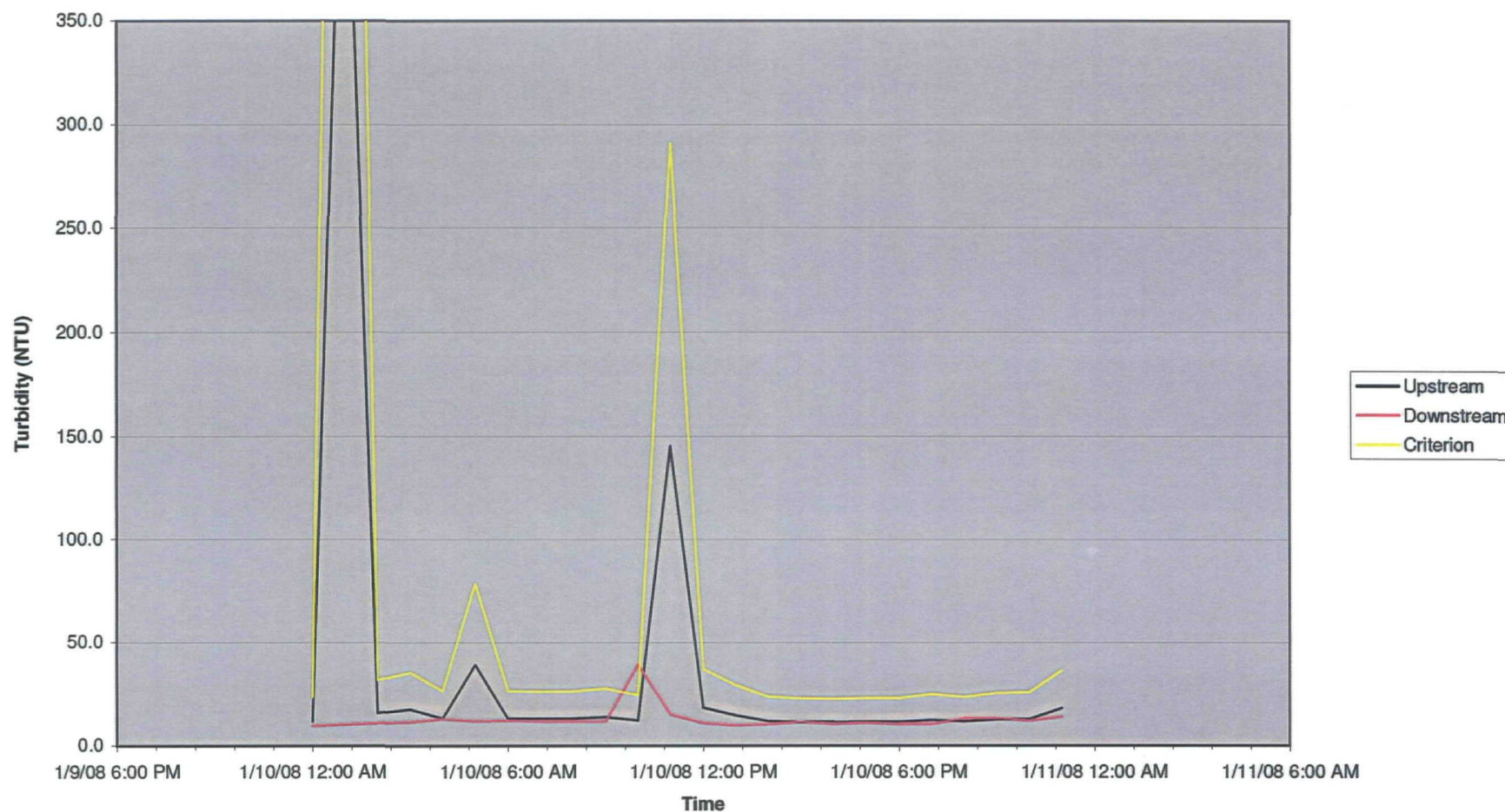
Note:
 Actions taken regarding exceedances are explained on Table 2.

Figure 8-5
Turbidity Data - Zone B: 1/4/2008 to 1/5/2008
Former Plainwell Mill Banks Emergency Action - Plainwell, MI



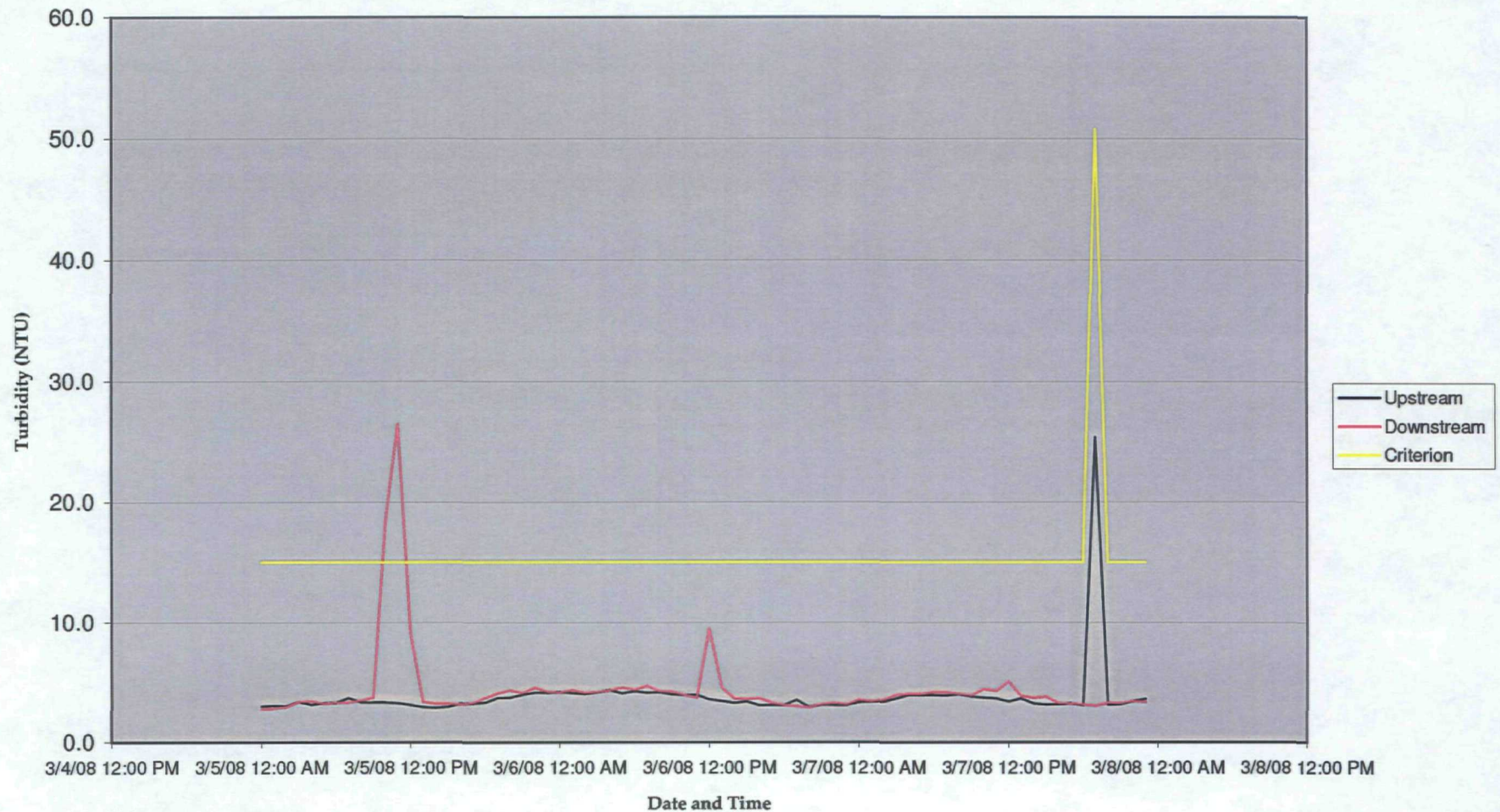
Note:
 Actions taken regarding exceedances are explained on Table 2.

Figure 8-6
Turbidity Data - Zone B: 1/10/2008
Former Plainwell Mill Banks Emergency Action - Plainwell, MI



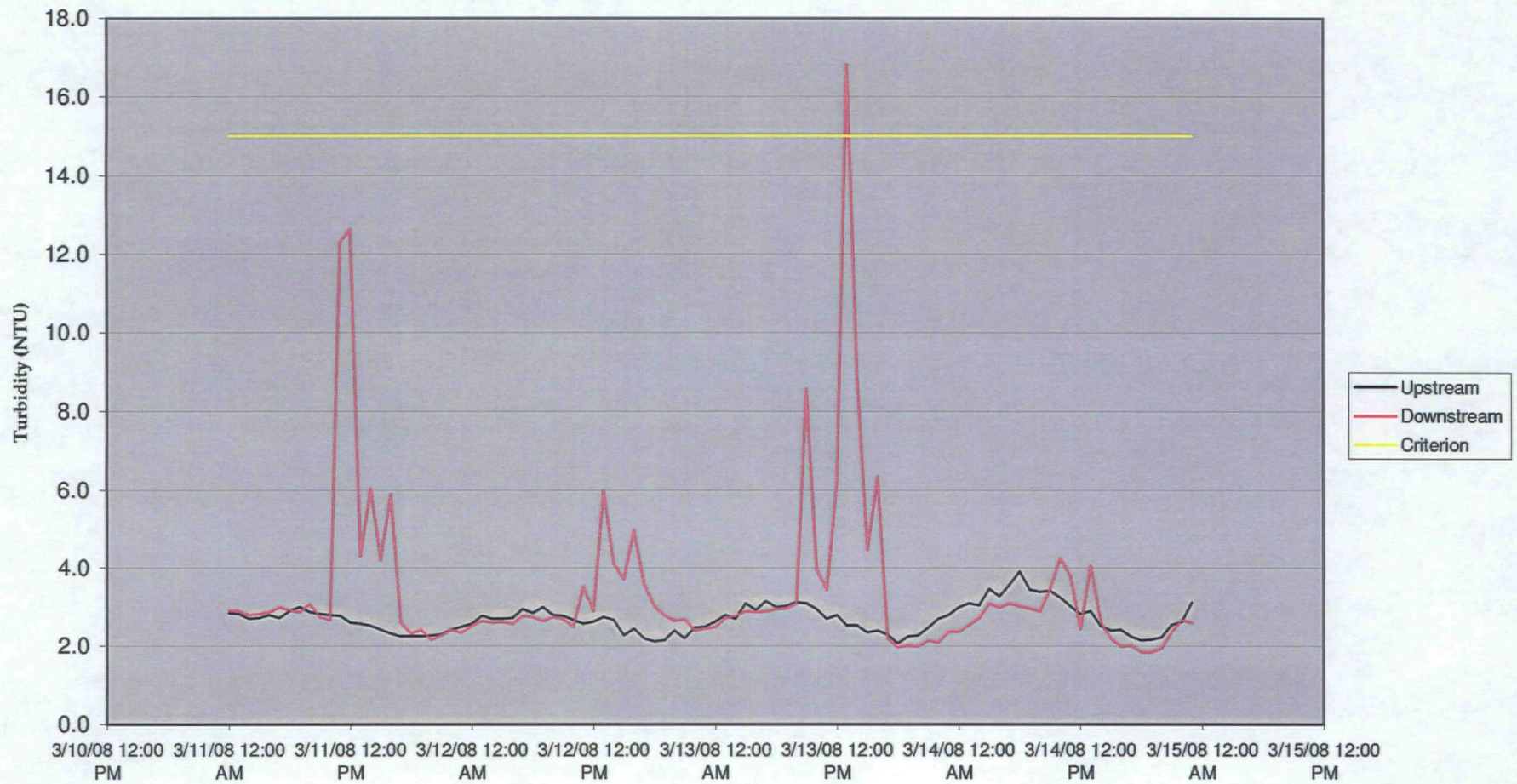
Note:
 Actions taken regarding exceedances are explained on Table 2.

Figure 8-7
Turbidity Data - Zone C: 3/5/2008 to 3/7/2008
Former Plainwell Mill Banks Emergency Action - Plainwell, MI



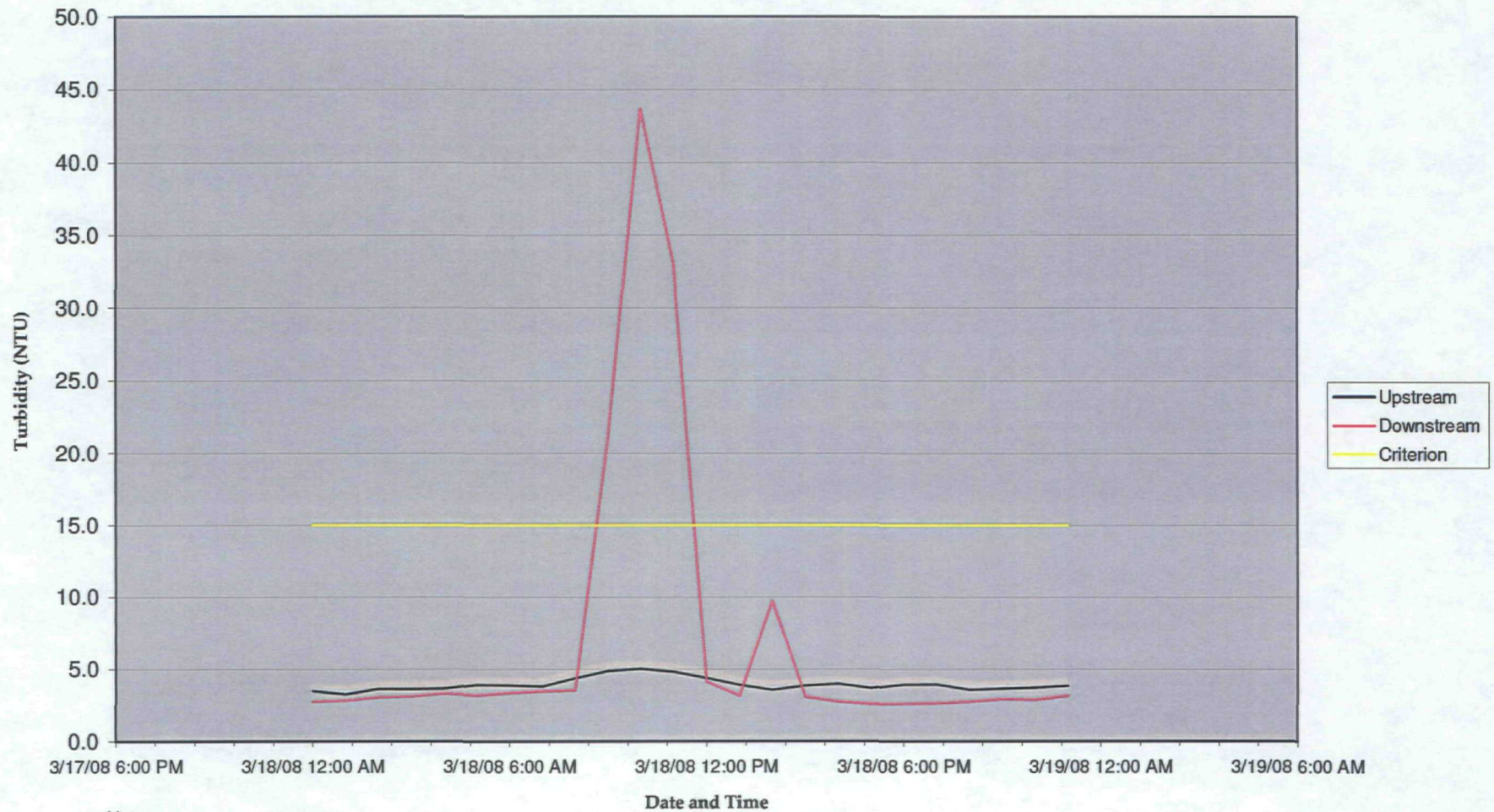
Note:
 Actions taken regarding exceedances are explained on Table 2.

Figure 8-8
Turbidity Data - Zone C: 3/11/2008 to 3/14/2008
Former Plainwell Mill Banks Emergency Action - Plainwell, MI



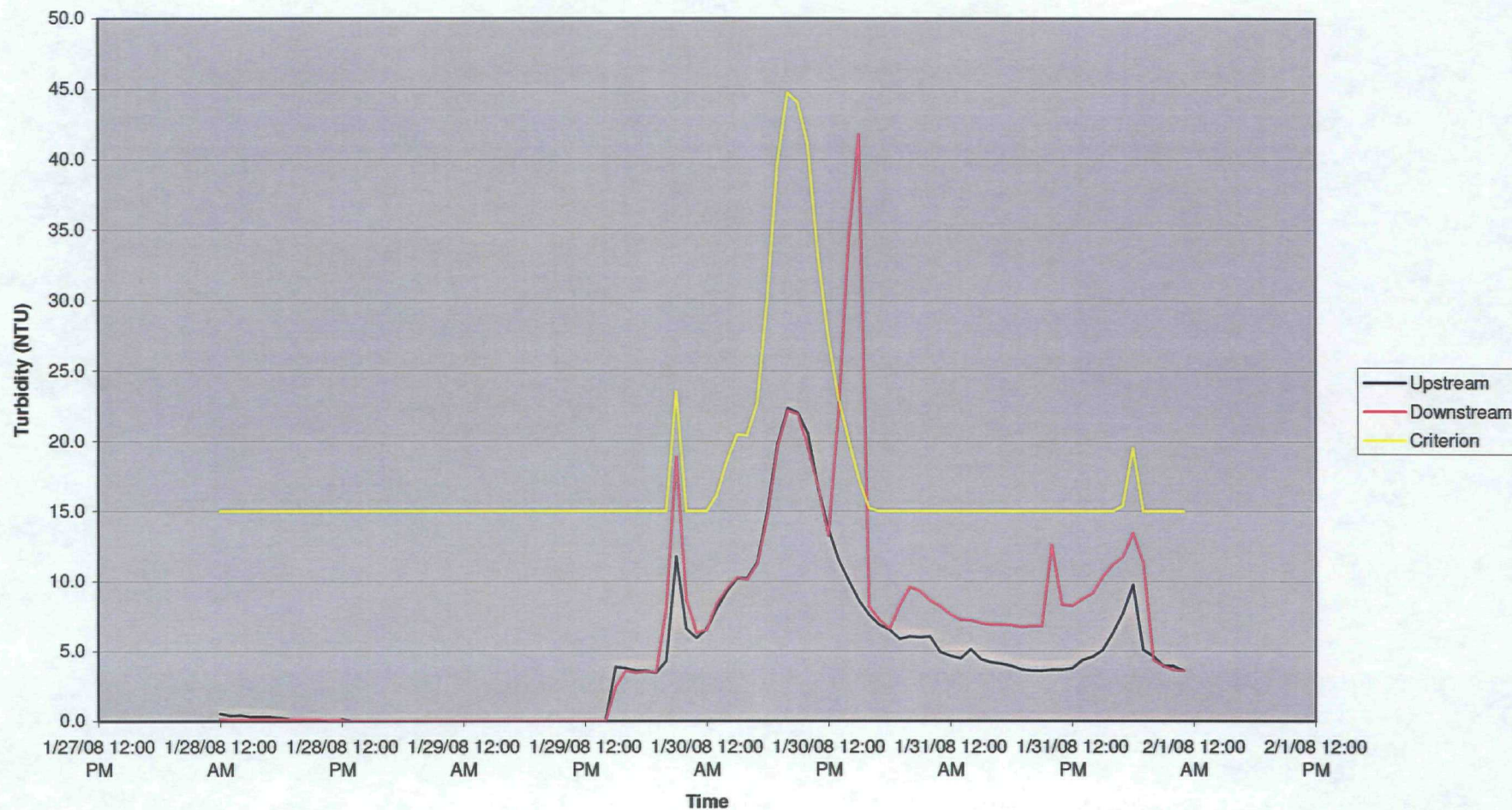
Note:
 Actions taken regarding exceedances are explained on Table 2.

Figure 8-9
Turbidity Data - Zone C: 3/18/2008
Former Plainwell Mill Banks Emergency Action - Plainwell, MI



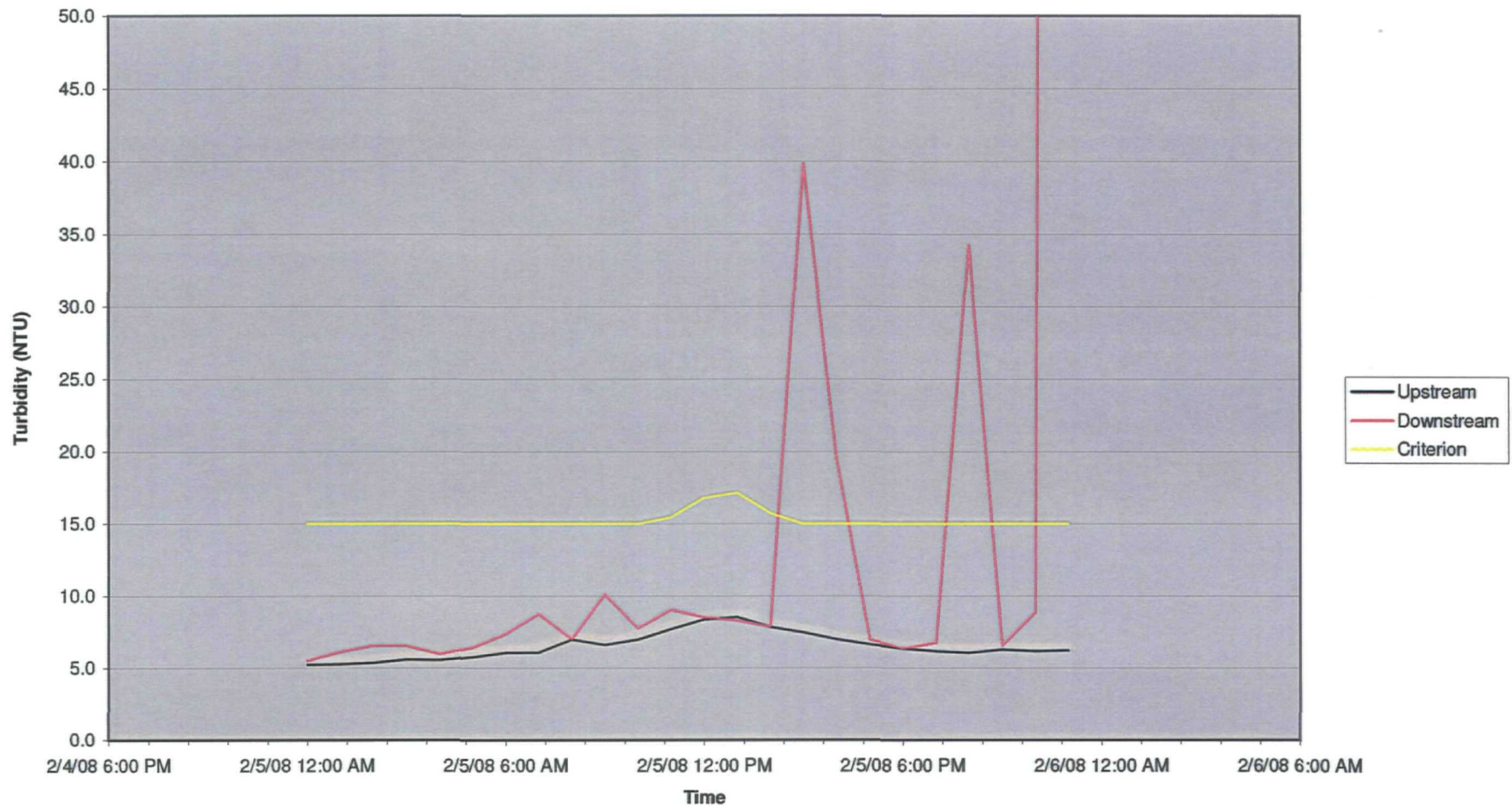
Note:
 Actions taken regarding exceedances are explained on Table 2.

Figure 8-10
Turbidity Data - Zone D: 1/28/2008 to 1/31/2008
Former Plainwell Mill Banks Emergency Action - Plainwell, MI



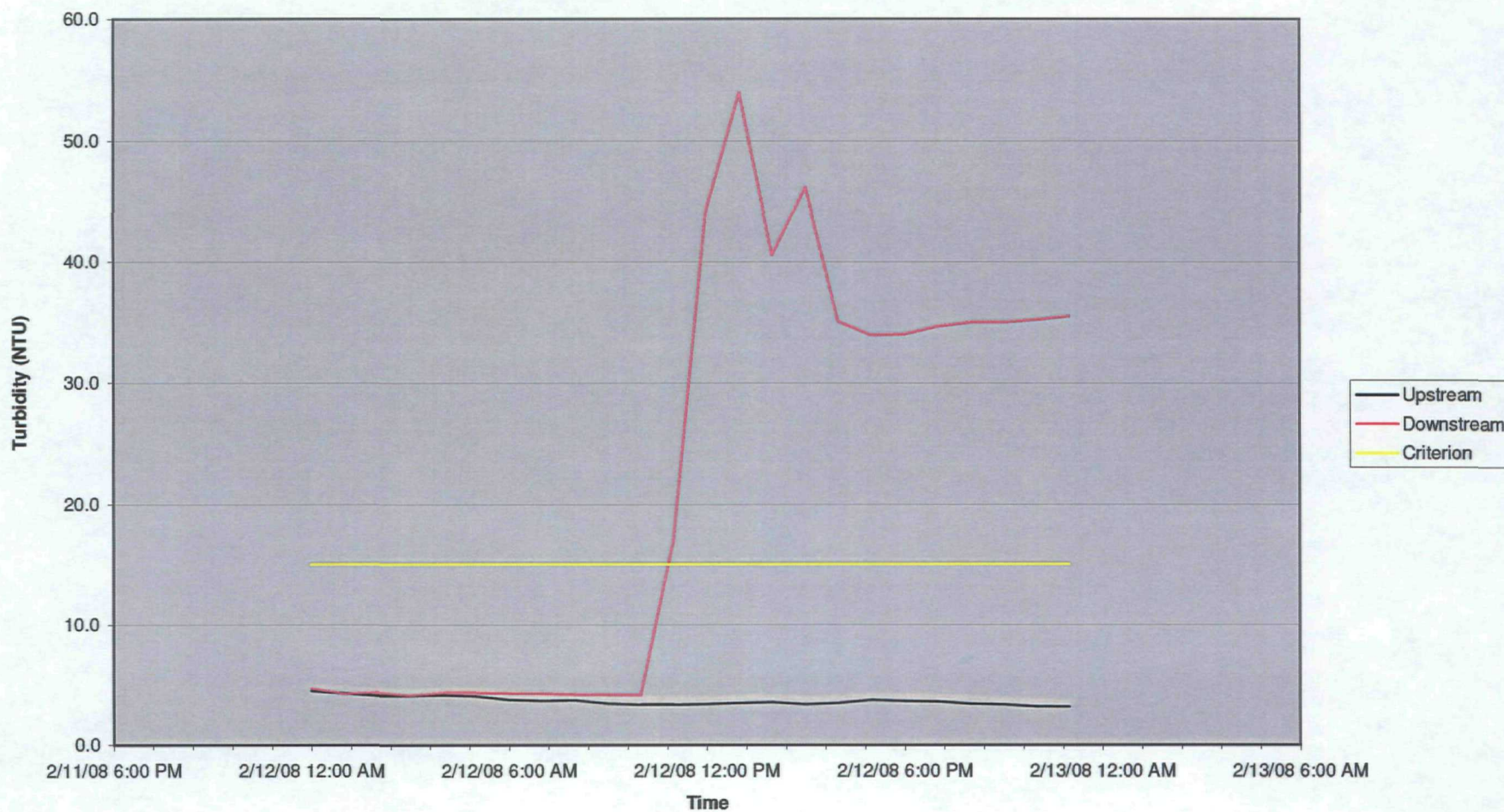
Note:
 Actions taken regarding exceedances are explained on Table 2.

Figure 8-11
Turbidity Data - Zone D: 2/5/2008
Former Plainwell Mill Banks Emergency Action - Plainwell, MI



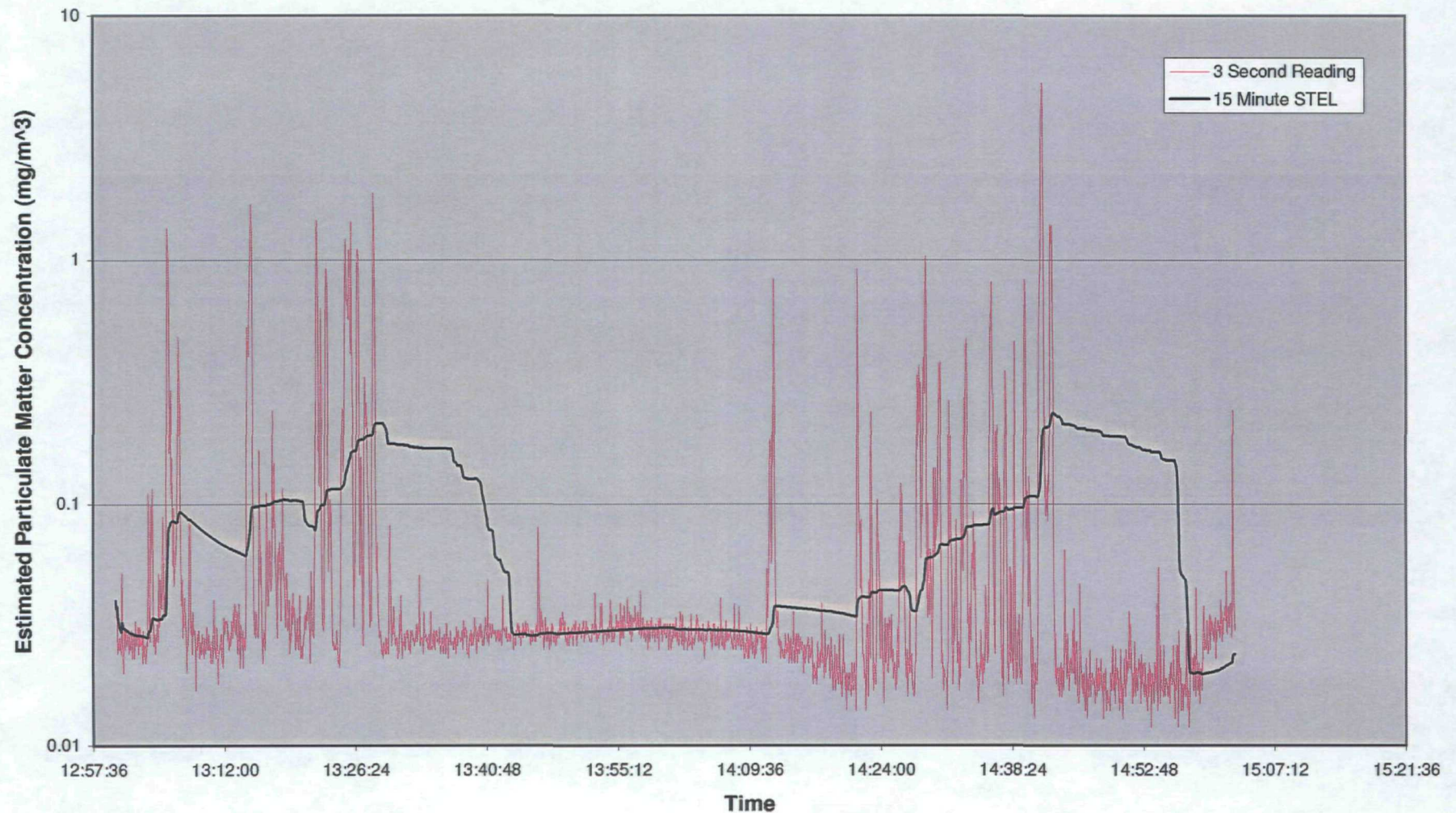
Note:
 Actions taken regarding exceedances are explained on Table 2.

Figure 8-12
Turbidity Data - Zone D: 2/12/2008
Former Plainwell Mill Banks Emergency Action - Plainwell, MI



Note:
Actions taken regarding exceedances are explained on Table 2.

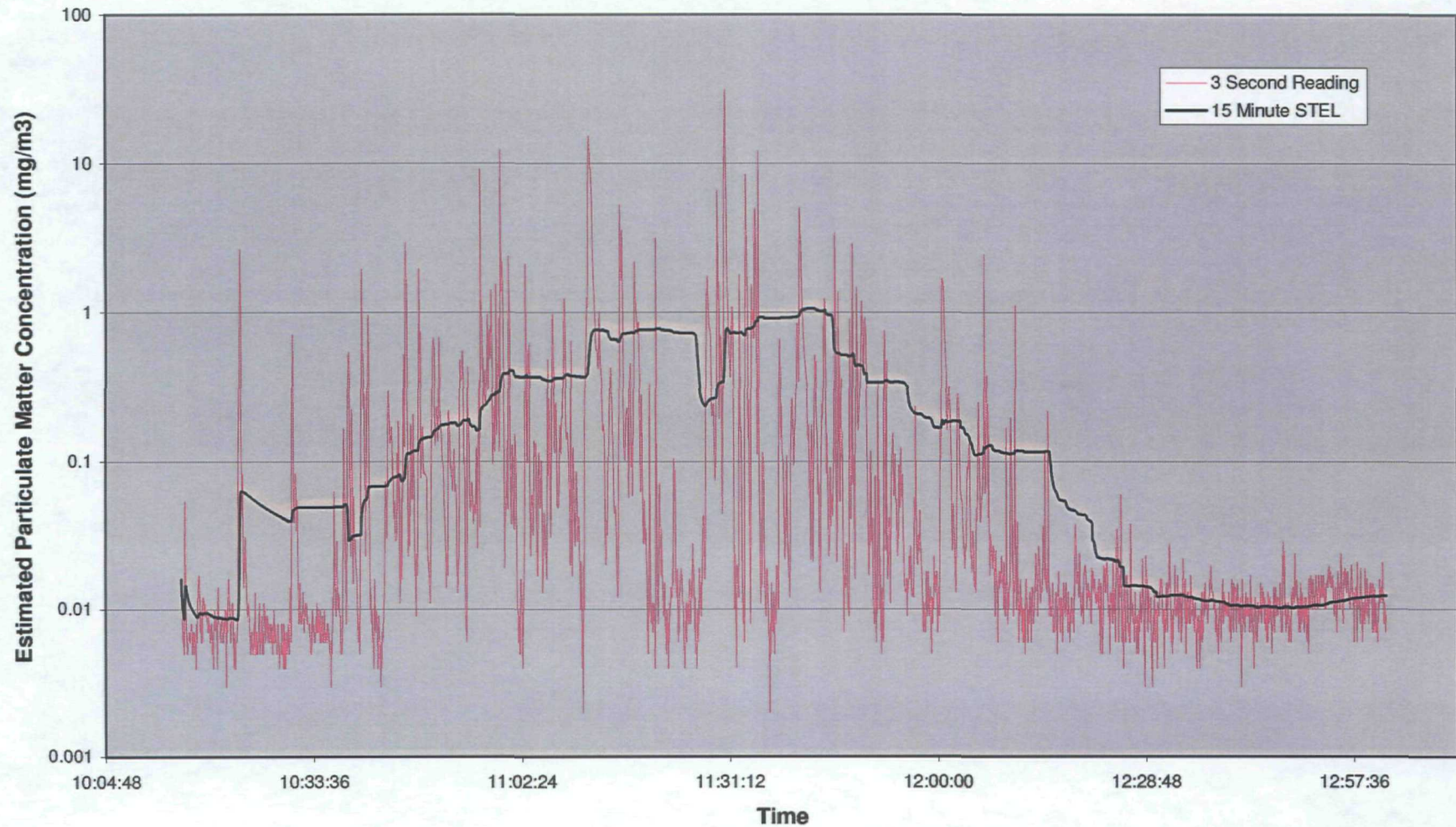
Figure 9-1
Air Monitoring During Waste Dewatering - 4/8/2008



Note:

- RAM was positioned to the south of the containment pad along the property boundary with the neighboring residential area.
- OSHA's 8-hour Time Weighted Average threshold value for general dust is 15 mg/m³.

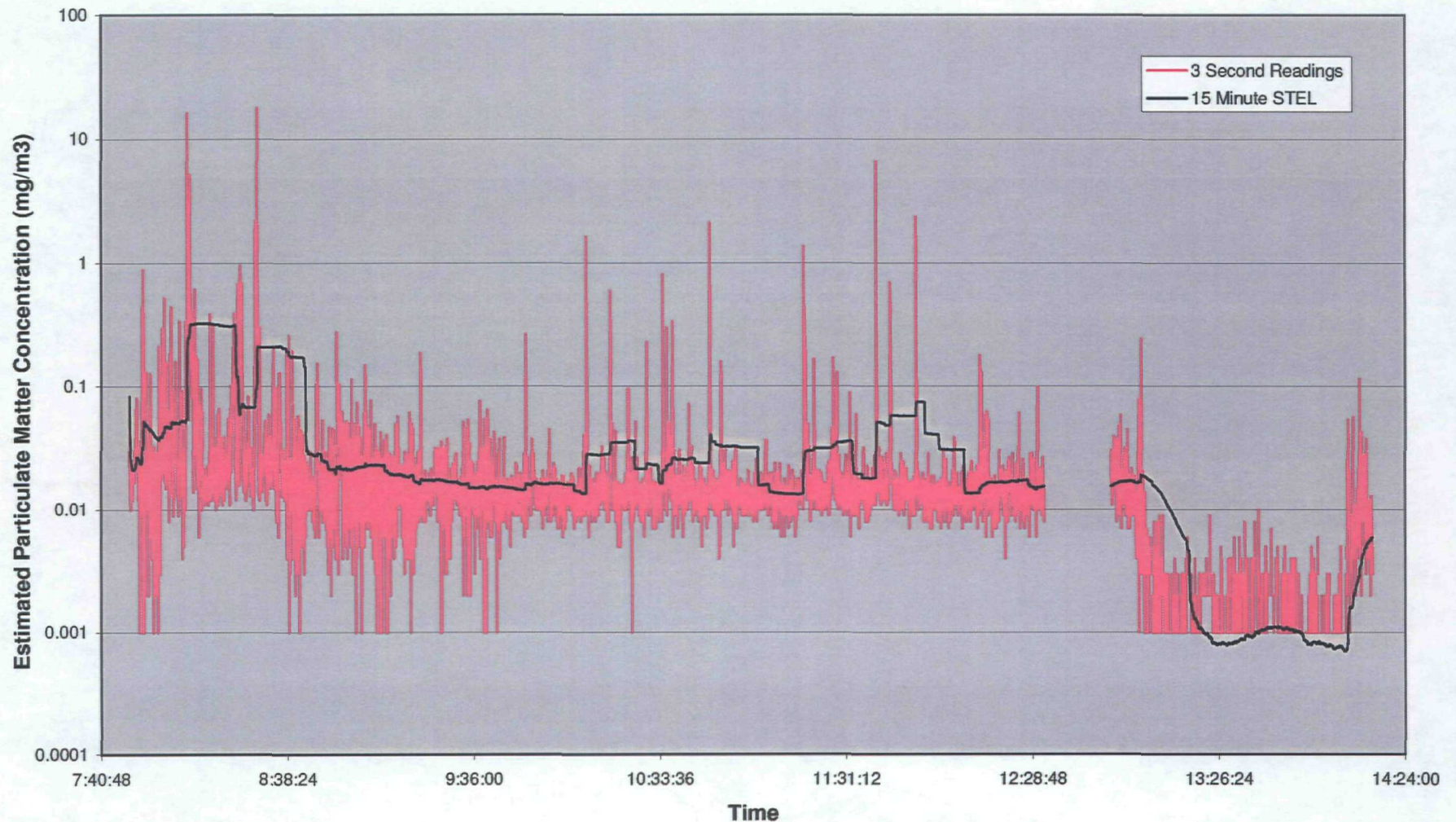
Figure 9-2
Air Monitoring During Waste Dewatering - 4/9/2008



Note:

- RAM was positioned to the south of the containment pad along the property boundary with the neighboring residential area.
- OSHA's 8-hour Time Weighted Average threshold value for general dust is 15 mg/m³.

Figure 9-3
Air Monitoring During Waste Dewatering 4/16/2008



Note:

- Discontinued air monitoring between 12:32 and 12:53 to transfer files off of the Data RAM hard drive.
- RAM positioned down wind of pad (northwest) during ash delivery then moved to the south of the pad near the property boundary with the residential area at 8:30 am.
- OSHA's 8-hour Time Weighted Average threshold value for general dust is 15 mg/m³.

Appendix A

Relevant Correspondence Associated With the Plainwell Mill Emergency Action



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

77 WEST JACKSON BOULEVARD

CHICAGO, IL 60604-3590

SEP 15 2008

REPLY TO THE ATTENTION OF:

SR-6J

Weyerhaeuser Company
Attn: Jennifer Hale
7800 East Orchard Road, Suite 200
Greenwood Village, Colorado 80111

**RE: Plainwell Mill, Operable Unit #7, Allied Paper/Portage Creek/Kalamazoo River Site
*Plainwell Mill Banks Emergency Action***

Dear Ms. Hale:

This is in response to Weyerhaeuser Company's (Weyerhaeuser) proposed transport and disposal plan for the materials dredged during the emergency action from the banks and floodplains of the Kalamazoo River adjacent to the Plainwell Mill (Mill Banks). The Mill Banks contain polychlorinated biphenyl (PCB) contaminated materials that exceed allowable PCB levels under Federal and Michigan law.

The United States Environmental Protection Agency (EPA) has determined that Weyerhaeuser's plan to transport and dispose materials containing less than 50 ppm PCBs, based on historical in-situ sampling, in a licensed and permitted solid waste landfill does not present an unreasonable risk to human health and the environment. Pursuant to 40 C.F.R. § 761.61 (c), and subject to applicable state and local law, EPA hereby approves the transport and disposal plan proposed in the April 16, 2008, letter from Weyerhaeuser to EPA, attached hereto as Attachment 1.

Should you have any questions on this matter, please contact Sam Chummar of my staff at (312) 886-1434.

Sincerely,

A handwritten signature in black ink, which appears to read "Richard C. Karl". The signature is written in a cursive, flowing style.

Richard C. Karl, Director
Superfund Division

Enclosure

Attachment 1 - Weyerhaeuser's April 16, 2008 letter to U.S. EPA

**cc: Steven E. Chester,
Director, Michigan Department of Environmental Quality**

**Michael Cox
Michigan Attorney General**



Environment Health & Safety, WTC 2G2
PO Box 9777
Federal Way, WA 98063-9777
Telephone: (253) 924-3746
Fax: (253) 924-6182
E-Mail: Jennifer.hale@weyerhaeuser.com

April 16, 2008

Mr. Sam Chummar, Remedial Project Manager
U.S. Environmental Protection Agency - Region 5
Superfund Division - Remedial Response Branch #1
77 W. Jackson Blvd. (SR-6J)
Chicago, IL 60604

Subject: Disposal Information
Plainwell Mill Emergency Action
Allied Paper, Inc./Portage Creek/Kalamazoo River Site

Dear Mr. Chummar:

The approved Plainwell Mill Banks Emergency Action Design Report identified material handling, general transportation, and overall disposal plans for the removed residual material. Some of the details regarding sampling protocols, disposal facilities, and scheduling was not available at the time of the final report. This letter provides additional information regarding a number of those issues.

A total of approximately 3,000 to 4,000 cubic yards of paper residuals were removed from the Plainwell Mill banks from November 2007 through March 2008 as part of the Emergency Action. These materials are currently stored on site within the LLDPE-lined containment pad and two HDPE-lined roll off boxes (approximately 50 cubic yards) located at the center of the Plainwell Mill property. As is, the material has a moisture content of 25 to 35 percent which limits transport and landfill disposal acceptance and will require solidification prior to transport.

Material Characterization and Solidification

The material has been sampled, as described below, to ensure proper disposal.

1. The containment pad is separated into four quadrants. Each of the quadrants was sampled for total PCBs prior to the addition of the stabilizing agent (PAD 1A, 1B, 2A, 2B). The results indicated total PCB concentrations of 3.24 mg/kg, 3.2 mg/kg, 3.38 mg/kg, and 2.56 mg/kg.
2. Mintek Calciment bottom ash was used as the solidifying agent. A Material Safety Data Sheet is attached. The Calciment material was brought on site in small quantities (one to two trucks daily) and placed within the containment pad immediately adjacent to the waste material. The Calciment was then mixed into the residual material using a backhoe.
3. Air monitoring was conducted during offloading and mixing of the Calciment material according to the Site Health and Safety Plan. Preliminary air monitoring results from the personal data RAM indicate that the maximum short term exposure limit (15 minute average) observed was $\sim 1 \text{ mg/m}^3$. This value is significantly lower than the OSHA 8-Hour Time Weighted Average threshold value of 15 mg/m^3 .

4. After addition of solidifying agent, two samples were collected for waste characterization¹ (PAD-1 and PAD-2). Waste Management Westside RDF requires analysis of the following prior to accepting the material: paint filter, SVOCs, VOCs, RCRA Metals, pesticides and herbicides, and PCBs. Results will be submitted to the USEPA upon receipt.
5. Both segregated dumpsters have been analyzed for PCBs. RB-East (3.21 mg/kg) is the material segregated from the central portion of Zone C. RB-West (0.62 mg/kg) is the material segregated from the east end of Zone D. Results of the samples are attached. Based on the results, disposal options for this material will be reviewed and approved by the USEPA RPM.

Loading and Transportation

To minimize dust generation, a temporary gravel haul road has been constructed adjacent to the south side of the containment pad (see Figure 1). The temporary road will provide improved access for loading the trucks adjacent to the containment pad. Once trucks are loaded, they will proceed to a spray wash area prior to exiting the site. The spray wash area will be lined with HDPE and sloped to collect the spray wash water into a sump. Trucks will be sprayed with a pressure washer to remove any materials that may have collected on the outside during loading operations. The water in the sump will then be pumped to a temporary holding tank. Once the temporary holding tank has been filled, the sump water will be treated in combination with the dewatering liquids and rain water through the on-site water treatment system, volumes will be well within design capacity of the system.

A properly licensed hauler will be utilized for transport of materials using HDPE-lined trucks with bed covers. It is anticipated that 15 to 20 trucks per day will be loaded and sent to the disposal facility. The trucks will enter the property off of the newly constructed haul road across from Prince Street and exit the site on Cedar Street. The City of Plainwell has been contacted regarding the truck traffic. Based on the estimated amount of material in the pad, 6 to 8 working days of truck disposal is expected at this time. Transportation of the segregated material may require additional licensing requirements for the transporter which will be addressed once the disposal option is chosen for that material.

Disposal

Two facilities have been designated to accept the waste material from the site. Materials located within the containment pad (Approximately 3,000 – 4,000 cubic yards) will be transported to:

Waste Management Westside RDF
14094 M-60 West
Three Rivers, MI 49093

¹ A separate waste characterization sample was collected on January 3, 2008, and analyzed. The results for that characterization sample have been provided to the USEPA and are included as Attachment 3.

Mr. Sam Chummar, Remedial Project Manager
U.S. Environmental Protection Agency - Region 5
April 16, 2008
Page 3

Solid waste disposal area operating license: 9026

For material presently within the dumpsters, if necessary, will be transported to:

The Environmental Quality Company - Wayne Disposal, Inc. Site #2 Landfill
49350 N I-94 Service Drive
Belleville, MI 4811
USEPA ID #MID048 090 633

Proposed driving routes which have been reviewed with the trucking firms to each site are included as Attachment 2. The proposed route will be review with the City of Plainwell and any adjustments made upon their request.

Site Cleanup

Overall site cleanup includes removal of access roads (if necessary), disposal of the containment pad liner, and demobilizing equipment and materials. The surface of the temporary access roads used to access the banks during the removal efforts of bank residuals was scraped to a depth of 6 to 12 inches to remove any potential material that may have dropped from the equipment or trucks during transport of the waste material to the containment pad and will be disposed off site with the residual material.. The temporary roads used for trucking the material off site will be inspected and a decision made with input from the USEPA, MDEQ, and City of Plainwell regarding whether the roads need to be removed and roadbed material transported off site.

Please contact Jim Hutchens with RMT or myself if you have any questions on this letter. Thank you for your past feedback and we look forward to moving forward on proceeding with off -site disposal of the residual material. Upon your approval, we will provide you a confirmed schedule for this work.

Sincerely,
Weyerhaeuser Company


Jennifer Hale
Environmental Manager

cmk/attachments

cc: Paul Bucholtz, MDEQ
Erik Wilson, City of Plainwell
Kathy Huibregtse, RMT, Inc.
Jim Hutchens, RMT, Inc.



RMT

DATE: 01/04/2008	DESIGNER: RMT
PROJECT: 1309-04	CLIENT: WETUMBER COMPANY
SCALE: 1" = 75'	LOCATION: KALAMAZOO RIVER SUPERFUND SITE
PROJECT: 1309-04	LOCATION: PLANNET, MI
PROJECT: 1309-04	LOCATION: TRUCK WASH AND TRUCK WASH
PROJECT: 1309-04	LOCATION: TRAFFIC FLOW PATTERNS



0 12.5 25 50 Feet
1 inch equals 75 feet

1. Truck wash area will be sloped to collect water

NOTES

Legend
Traffic Flow Pattern
Truck Wash
Containment Pad
Water Treatment



MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

Date: 01/01/08
Code: Oregon, OH

Product Name
Calcimient® -
Bed Ash

Distributor
Mintek Resources, Inc.
PO Box 340187
Beavercreek, OH 45434

Telephone
937-431-0218 Office
937-431-1305 Fax
800-424-9300 CHEMTREC

SECTION 2. TYPICAL COMPOSITION

Component	Formula	% Wt.	CAS No.	PEL
Calcium Oxide	CaO	50 - 55	1305-78-8	5mg/m ³
Amorphous Silica	SiO	2 - 3	7631-86-9	80mg/m ³
Aluminum Oxide	Al ₂ O ₃	0.1 - 0.2	1344-28-1	15mg/m ³
Ferric Oxide	Fe ₂ O ₃	0.5 - 1	1309-37-1	10mg/m ³
Magnesium Oxide	MgO	2 - 4	1309-48-4	15mg/m ³
Calcium Sulfate	SO ₃	35 - 38	7778-18-9	15mg/m ³

SECTION 3. HAZARD IDENTIFICATION

Potential Health Effects:

Inhalation (acute): Breathing dust may cause nose, throat or lung irritation and choking. The described effect depends on the degree of exposure and preexisting respiratory conditions.

Inhalation (chronic): Prolonged or repeated exposure may cause inflammation of the respiratory passages. May cause chemical bronchitis with coughing and difficulty breathing. Risk of injury depends on duration and level of exposure. Long term exposures which result in bronchitis may result in additional health effects.

Eye Contact (acute/chronic): Initially may cause eye irritation with discomfort, tearing or blurring of vision. Continued overexposure could potentially cause burns and damage to cornea.

Skin Contact (acute/chronic): Initially may cause dry skin, redness, discomfort or irritation. Continued overexposure could potentially cause burns.

Ingestion (acute/chronic): Causes gastrointestinal tract irritation. May cause nausea vomiting and diarrhea. May cause central nervous system depression.

P.O. Box 340187
Beavercreek, OH 45434

Dispatch (937) 431-0218
Fax (937) 431-0254

SECTION 4. FIRST AID MEASURES

Skin: Wash with soap and water. Seek medical attention if irritation develops or persists.

Eyes: Flush eyes with clean, low-pressure water for at least 15 minutes, occasionally lifting eyelids. Seek medical attention for abrasions.

Inhalation: Remove personnel from contaminated area to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention for discomfort.

Ingestion: If ingested, do not induce vomiting, but drink plenty of water. Seek medical attention for discomfort.

SECTION 5. FIRE FIGHTING MEASURES

Flashpoint and Method: None.

Flammable Limits: Not combustible.

Autoignition Temperature: None.

General Hazard: Avoid breathing dust. Although this product is not considered flammable it has the potential to generate heat when exposed to water.

Firefighting Instructions: Treat adjacent material.

Firefighting Equipment: This product is not a fire hazard. Self contained breathing apparatus is recommended if this material is exposed to heat since there is a possibility that toxic fumes may evolve.

Hazardous Combustion Products: None.

SECTION 6. ACCIDENT RELEASE MEASURES

General: Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in section 8. Collect and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

SECTION 7. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

Avoid contact with eyes, skin and clothing. Do not ingest or inhale.

Storage: Store in a well-ventilated area away from incompatible substances.

Storage Temperature: Unlimited.

Storage Pressure: Unlimited.

Empty Containers: Dispose of containers in an approved landfill or incinerator.

SECTION 8. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Varying from light to dark gray/white mix of fine granules and powder
Boiling Point:	Not determined
Freezing Point:	None, solid
Viscosity:	None, solid
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Specific Gravity:	Not determined
Solubility in Water:	Not determined
Evaporation Rate:	Not measurable
pH (in water):	Not determined

SECTION 9. STABILITY AND REACTIVITY

General: Product is stable but should be kept dry. It may react exothermically to produce heat when in contact with water.

Incompatible Materials and Conditions to Avoid: May generate heat when exposed to water. Will neutralize mineral acids producing calcium and magnesium based salts. Will absorb carbon dioxide in air. Avoid conditions that generate dusts.

Hazardous Polymerization: Will not occur.

SECTION 10. TOXICOLOGICAL INFORMATION

LD50/LC50: No information available.

Carcinogenicity: Not listed by ACGIH, IARC, NOISH, NTP or OSHA

Epidemiology: No information available.

Teratogenicity: No information available

SECTION 11. ECOLOGICAL INFORMATION

Not available.

SECTION 12. DISPOSAL CONSIDERATIONS

Dispose in landfill in accordance with all applicable regulations. Any disposal practice must be in compliance with local, provincial, state and federal laws and regulations. Contact local environmental agency for specific rules.

SECTION 13. TRANSPORTATION INFORMATION

Since the mixture varies by percentages of the different components to the point of being present or absent, it is difficult to evaluate bed ash based on DOT classifications.

SECTION 14. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA)

Calcium Oxide (CAS# 1305-78-8) is listed on the TSCA inventory

None of the chemicals in this material are listed under TSCA Section 12b

None of the chemicals in this product have a SNUR under TSCA

None of the chemicals are on the Health and Safety reporting list

None of the chemicals in this product are under a Chemical Test Rule

SARA

Section 302: None of the chemicals in this material have a RQ (reportable quantity)

Section 302: None of the chemicals in this material have a TPQ (threshold planning quantity)

SARA Codes: Acute, Reactive

Section 313: No chemicals are reportable under Section 313

Clean Air Act

This material does not contain any hazardous air pollutants. No Class 1 or Class 2 Ozone depleters present.

Clean Water Act

CWA Hazardous Substances: none

CWA Priority Pollutants: None

CWA Toxic Pollutants: None

OSHA Hazard Communication Rule, 29 CFR 1910.1200:

One or more of the constituents identified are considered by OSHA to be hazardous.

STATE Right-to-Know

Calcium Oxide (CAS# 1305-78-8 is listed on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts

Calcium Sulfate (CAS #7778-18-9) is listed on the following state Right-to-Know lists: Pennsylvania

CERCLA/SUPERFUND, 40 CFR 117.302:

Not listed.

WHMIS Information:

This product has a WHMIS classification of E, C

SECTION 15. MISCELLANEOUS OTHER INFORMATION**Abbreviations:**

CAS No.	Chemical Abstract Service number
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
TWA	Time Weighted Average (8 hour)
CL	Ceiling Limit
Mg/m ³	milligrams per cubic meter
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
pH	negative log of hydrogen ion greater than
DOT	U.S. Department of Transportation
TDG	Transportation of Dangerous Goods
CFR	Code of Federal Regulations
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
SARA	Superfund Amendments and Reauthorization Act

The information contained herein is believed to be accurate and reliable as of the date hereof. However, Mintek Resources, Inc. makes no representation, warranty or guarantee as to results or as to the information's accuracy, reliability or completeness. Mintek has no liability for any loss or damage that may result from use of the information. Each user is responsible to review this information, satisfy itself as to the information's suitability and completeness, and circulate the information to its employees, customers and other appropriate third parties.



Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

April 11, 2008

NATHAN WEBER
RMT MILWAUKEE
150 NORTH PATRICK BLVD.
SUITE 180
Brookfield, WI 53045

RE: Project: 5130.04 PLAINWELL MILL BANKS
Pace Project No.: 402162

Dear NATHAN WEBER:

Enclosed are the analytical results for sample(s) received by the laboratory on April 02, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 12

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CERTIFICATIONS

Project: 5130.04 PLAINWELL MILL BANKS
Pace Project No.: 402162

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503

Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

REPORT OF LABORATORY ANALYSIS

Page 2 of 12

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SAMPLE SUMMARY

Project: 5130.04 PLAINWELL MILL BANKS
Pace Project No.: 402162

Lab ID	Sample ID	Matrix	Date Collected	Date Received
402162001	RB-EAST	Solid	04/01/08 10:24	04/02/08 10:25
402162002	RB-WEST	Solid	04/01/08 10:13	04/02/08 10:25

REPORT OF LABORATORY ANALYSIS

Page 3 of 12

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SAMPLE ANALYTE COUNT

Project: 5130.04 PLAINWELL MILL BANKS
Pace Project No.: 402162

Lab ID	Sample ID	Method	Analysts	Analytes Reported
402162001	RB-EAST	ASTM D2974-87	GWS	1
		EPA 8082	BDS	10
402162002	RB-WEST	ASTM D2974-87	GWS	1
		EPA 8082	BDS	10

REPORT OF LABORATORY ANALYSIS

Page 4 of 12

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PROJECT NARRATIVE

Project: 5130.04 PLAINWELL MILL BANKS
Pace Project No.: 402162

Method: EPA 8082
Description: 8082 GCS PCB
Client: RMT MADISON
Date: April 11, 2008

General Information:

2 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3541 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/1234

S0: Surrogate recovery outside laboratory control limits.

- RB-EAST (Lab ID: 402162001)
- Decachlorobiphenyl (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Page 5 of 12

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PROJECT NARRATIVE

Project: 5130.04 PLAINWELL MILL BANKS
Pace Project No.: 402162

Method: ASTM D2974-87
Description: Percent Moisture
Client: RMT MADISON
Date: April 11, 2008

General Information:

2 samples were analyzed for ASTM D2974-87. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (Including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

Page 6 of 12

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ANALYTICAL RESULTS

Project: 5130.04 PLAINWELL MILL BANKS
Pace Project No.: 402162

Sample: RB-EAST Lab ID: 402162001 Collected: 04/01/08 10:24 Received: 04/02/08 10:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB									
Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	ND	ug/kg	1100	139	10	04/03/08 11:17	04/03/08 23:15	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1100	139	10	04/03/08 11:17	04/03/08 23:15	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1100	139	10	04/03/08 11:17	04/03/08 23:15	11141-16-5	
PCB-1242 (Aroclor 1242)	2910	ug/kg	1100	139	10	04/03/08 11:17	04/03/08 23:15	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1100	139	10	04/03/08 11:17	04/03/08 23:15	12672-29-6	
PCB-1254 (Aroclor 1254)	294J	ug/kg	1100	139	10	04/03/08 11:17	04/03/08 23:15	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	1100	139	10	04/03/08 11:17	04/03/08 23:15	11096-82-5	
PCB, Total	3210	ug/kg	1100	139	10	04/03/08 11:17	04/03/08 23:15	1336-36-3	
Tetrachloro-m-xylene (S)	71	%	50-137		10	04/03/08 11:17	04/03/08 23:15	877-09-8	
Decachlorobiphenyl (S)	55	%	56-130		10	04/03/08 11:17	04/03/08 23:15	2051-24-3	S0
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	8.8	%	0.10	0.10	1		04/03/08 09:26		

ANALYTICAL RESULTS

Project: 5130.04 PLAINWELL MILL BANKS
Pace Project No.: 402162

Sample: RB-WEST Lab ID: 402162002 Collected: 04/01/08 10:13 Received: 04/02/08 10:25 Matrix: Solid
Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB Analytical Method: EPA 8082 Preparation Method: EPA 3541									
PCB-1016 (Aroclor 1016)	ND	ug/kg	116	14.7	1	04/03/08 11:17	04/03/08 23:43	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	116	14.7	1	04/03/08 11:17	04/03/08 23:43	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	116	14.7	1	04/03/08 11:17	04/03/08 23:43	11141-16-5	
PCB-1242 (Aroclor 1242)	244	ug/kg	116	14.7	1	04/03/08 11:17	04/03/08 23:43	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	116	14.7	1	04/03/08 11:17	04/03/08 23:43	12672-29-6	
PCB-1254 (Aroclor 1254)	325	ug/kg	116	14.7	1	04/03/08 11:17	04/03/08 23:43	11097-69-1	
PCB-1260 (Aroclor 1260)	49.8J	ug/kg	116	14.7	1	04/03/08 11:17	04/03/08 23:43	11096-82-5	
PCB, Total	619	ug/kg	116	14.7	1	04/03/08 11:17	04/03/08 23:43	1336-36-3	
Tetrachloro-m-xylene (S)	84	%	50-137		1	04/03/08 11:17	04/03/08 23:43	877-09-8	
Decachlorobiphenyl (S)	64	%	56-130		1	04/03/08 11:17	04/03/08 23:43	2051-24-3	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	13.7	%	0.10	0.10	1		04/03/08 09:26		

1

QUALITY CONTROL DATA

Project: 5130.04 PLAINWELL MILL BANKS
Pace Project No.: 402162

QC Batch:	PMST/1129	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	402162001, 402162002		

SAMPLE DUPLICATE: 12190

Parameter	Units	402154001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.8	6.1	4	10	

QUALITY CONTROL DATA

Project: 5130.04 PLAINWELL MILL BANKS
Pace Project No.: 402162

QC Batch: OEXT/1234 Analysis Method: EPA 8082
QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 402162001, 402162002

METHOD BLANK: 12340

Associated Lab Samples: 402162001, 402162002

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	100	
PCB-1221 (Aroclor 1221)	ug/kg	ND	100	
PCB-1232 (Aroclor 1232)	ug/kg	ND	100	
PCB-1242 (Aroclor 1242)	ug/kg	ND	100	
PCB-1248 (Aroclor 1248)	ug/kg	ND	100	
PCB-1254 (Aroclor 1254)	ug/kg	ND	100	
PCB-1260 (Aroclor 1260)	ug/kg	ND	100	
Decachlorobiphenyl (S)	%	71	56-130	
Tetrachloro-m-xylene (S)	%	78	50-137	

LABORATORY CONTROL SAMPLE: 12341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg		ND			
PCB-1221 (Aroclor 1221)	ug/kg		ND			
PCB-1232 (Aroclor 1232)	ug/kg		ND			
PCB-1242 (Aroclor 1242)	ug/kg		ND			
PCB-1248 (Aroclor 1248)	ug/kg		ND			
PCB-1254 (Aroclor 1254)	ug/kg		ND			
PCB-1260 (Aroclor 1260)	ug/kg	500	359	72	61-115	
Decachlorobiphenyl (S)	%			73	56-130	
Tetrachloro-m-xylene (S)	%			80	50-137	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 12342

12343

Parameter	Units	402187006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	<66.8			ND	ND				30	
PCB-1221 (Aroclor 1221)	ug/kg	<66.8			ND	ND				30	
PCB-1232 (Aroclor 1232)	ug/kg	<66.8			ND	ND				30	
PCB-1242 (Aroclor 1242)	ug/kg	<66.8			ND	ND				30	
PCB-1248 (Aroclor 1248)	ug/kg	1740			2370	2330				2	30
PCB-1254 (Aroclor 1254)	ug/kg	<66.8			ND	ND				30	
PCB-1260 (Aroclor 1260)	ug/kg	751	1320	1320	1890	1930	87	90	65-135	2	30
Decachlorobiphenyl (S)	%						57	58	56-130		
Tetrachloro-m-xylene (S)	%						71	71	50-137		

QUALIFIERS

Project: 5130.04 PLAINWELL MILL BANKS
Pace Project No.: 402162

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5130.04 PLAINWELL MILL BANKS

Pace Project No.: 402162

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
402162001	RB-EAST	ASTM D2974-87	PMST/1129		
402162002	RB-WEST	ASTM D2974-87	PMST/1129		
402162001	RB-EAST	EPA 3541	OEXT/1234	EPA 8082	GCSV/1131
402162002	RB-WEST	EPA 3541	OEXT/1234	EPA 8082	GCSV/1131

1

Directions to Three Rivers, MI 49093-9268

YAHOO! LOCAL
Maps

Summary and Notes

START **A** 220 Allegan St, Plainwell, MI 49080-1244FINISH **B** Waste Management Incorporated
(269) 279-5444
14094 M 60, Three Rivers, MI 49093-9268Total Distance: 39.2 miles, Total Time:
45 mins (approx.)

Add your notes here...

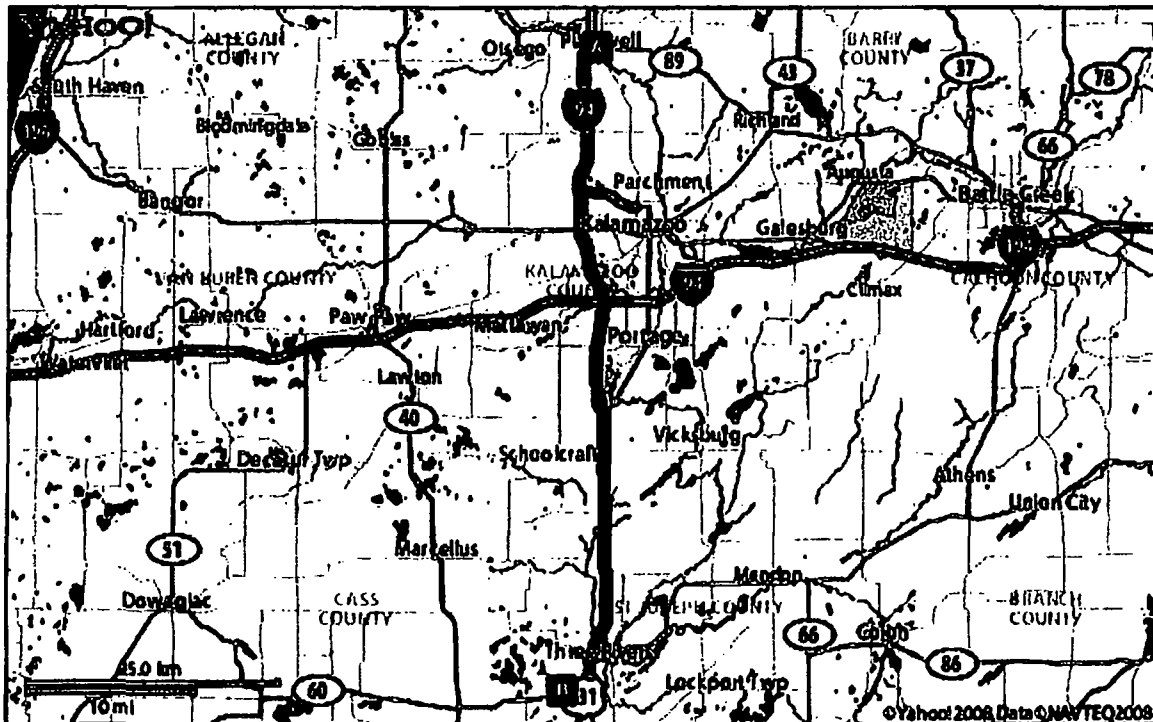
Distance

A 220 ALLEGAN ST, PLAINWELL, MI 49080-1244

1. Start at 220 ALLEGAN ST, PLAINWELL going toward CEDAR ST go 0.8 mi
2. Take ramp onto US-131 S go 36.7 mi
3. Bear **R** on M 60(M-60 W) toward NILES go 1.7 mi
4. Arrive at 14094 M 60, THREE RIVERS, on the **R** go < 0.1 mi

B 14094 M 60, THREE RIVERS, MI 49093-9268

Distance: 39.2 miles, Time: 45 mins



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

REPLY TO THE ATTENTION OF: SR-6J

VIA ELECTRONIC AND CERTIFIED MAIL

March 28, 2008

Jennifer Hale
Environment Health & Safety, WTC 2G2
P.O. Box 9777
Federal Way, WA 98063-9777

RE: Plainwell Mill, Operable Unit #7, Allied Paper/Portage Creek/Kalamazoo River Site
Plainwell Mill Banks Emergency Action
Request to Place Erosion Control in Area C

Dear Ms. Hale:

Weyerhaeuser Company (Weyerhaeuser) is currently conducting an emergency action on the banks and floodplains of the Kalamazoo River adjacent to the Plainwell Mill (the Site) under the terms of a Consent Decree with the United States Environmental Protection Agency (EPA), Civil Action No. 1:05 CV0003 (CD). Weyerhaeuser requested via a letter dated March 26, 2008, approval to place erosion control over the area shaded in blue on Figure 1 in lieu of excavation of the area. EPA is approving the placement of erosion control over the area shaded blue on Figure 1. As the March 26, 2008 letter anticipates, this may not constitute a final measure, pending the results of further investigation.

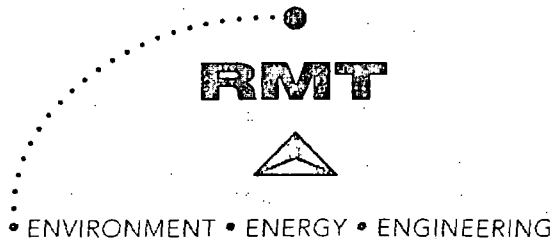
Thank you for your attention to this matter. Please do not hesitate to call me at 312.886.1434, should you have any questions related to the project.

Sincerely,

A handwritten signature in black ink, appearing to be "S. Chummar", is written below the word "Sincerely,".

Sam Chummar, Remedial Project Manager
U.S. EPA Region 5
Superfund Division – Remedial Response Branch #1
77 W Jackson Blvd. (SR-6J)
Chicago, IL 60604

cc: Eileen Furey, C-14J
James Saric, SR-6J
Michael Berkoff, SR-6J
Paul Bucholtz, MDEQ



February 26, 2008

Mr. Sam Chummar, Remedial Project Manager
U.S. Environmental Protection Agency - Region 5
Superfund Division - Remedial Response Branch #1
77 W. Jackson Blvd. (SR-6J)
Chicago, IL 60604

Subject: Corrected Fill Sample Result
Operable Unit No. 5, Allied Paper, Inc./Portage Creek/Kalamazoo River Site
Plainwell Mill Banks Emergency Action

Dear Mr. Chummar:

This letter confirms that the metals analytical results sent to the U.S. EPA on January 31, 2008, for the imported fill soil have been found to have been mislabeled in the laboratory. The data in Table 1 (Attachment 1) is the correct characterization of metals concentrations in the imported fill soils.

A letter from TriMatrix Laboratories, Inc. (Attachment 3) explains and confirms the error in the original fill sample analysis. They have also provided photographs of the samples which we have attached to this letter (Attachment 2). In addition, we have attached the internal quality assurance nonconformance report of their investigation (Attachment 4) including the procedures that they have instituted to address the situation as well as the results of the re-analysis of the fill sample and re-analysis of the "Pad sample" which was erroneously reported as fill.

The photographs (Attachment 2), which clearly show that the wrong sample was tested, the analytical results that are more consistent with the Pad sample designated for disposal, and the re-analysis that matched the four other fill samples consistently establish that the fill material has now been appropriately characterized. For all future discussion and presentation of this sample result, we will report only the correct analytical data. Please contact me at 262-879-1212 if you have any questions or contact Jennifer Rice at TriMatrix Laboratories, Inc. directly at 616-940-4277.

Sincerely,

RMT, Inc.

Kathryn R. Huibregtse
Vice President

cmk/attachments

cc: Paul Bucholz, Michigan Department of Environmental Quality
Jennifer Hale, Weyerhaeuser Company
Jennifer Rice, TriMatrix Laboratories, Inc.

I:\WPMLW\PJT\00-05130\05\L000513005-004.DOC

Attachment 1
Table 1 – Fill Soil Analytical Results

Table 1
Fill Soil Analytical Results

	Part 201 Resd/Comm I Soil Stds			Fill Pile 1/3/2008	Fill Pile Re-run	Pit-1	Pit-2	Initial #1	Initial #2
	Background	GSI	Direct Contact						
Arsenic	5.8	70	7.6	7.4	4.7	6.6	6.2	4.2	5.8
Barium	75	ph/hdns	37,000	180	31	57	63	34	35
Cadmium	1.2	ph/hdns	550	1.4	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	18	ph/hdns	790,000	77	8.0	17	16	9.2	11
Lead	21	ph/hdns	400	240	8.4	10	10	8.6	10
Mercury	0.13	0.5	160	1.5	<0.05	<0.05	<0.05	<0.05	<0.05
Selenium	0.41	0.4	2,600	0.73	<0.2	<0.2	<0.2	<0.2	<0.2
Silver	1	0.1	2,500	0.56	<0.1	<0.1	<0.1	<0.1	<0.1

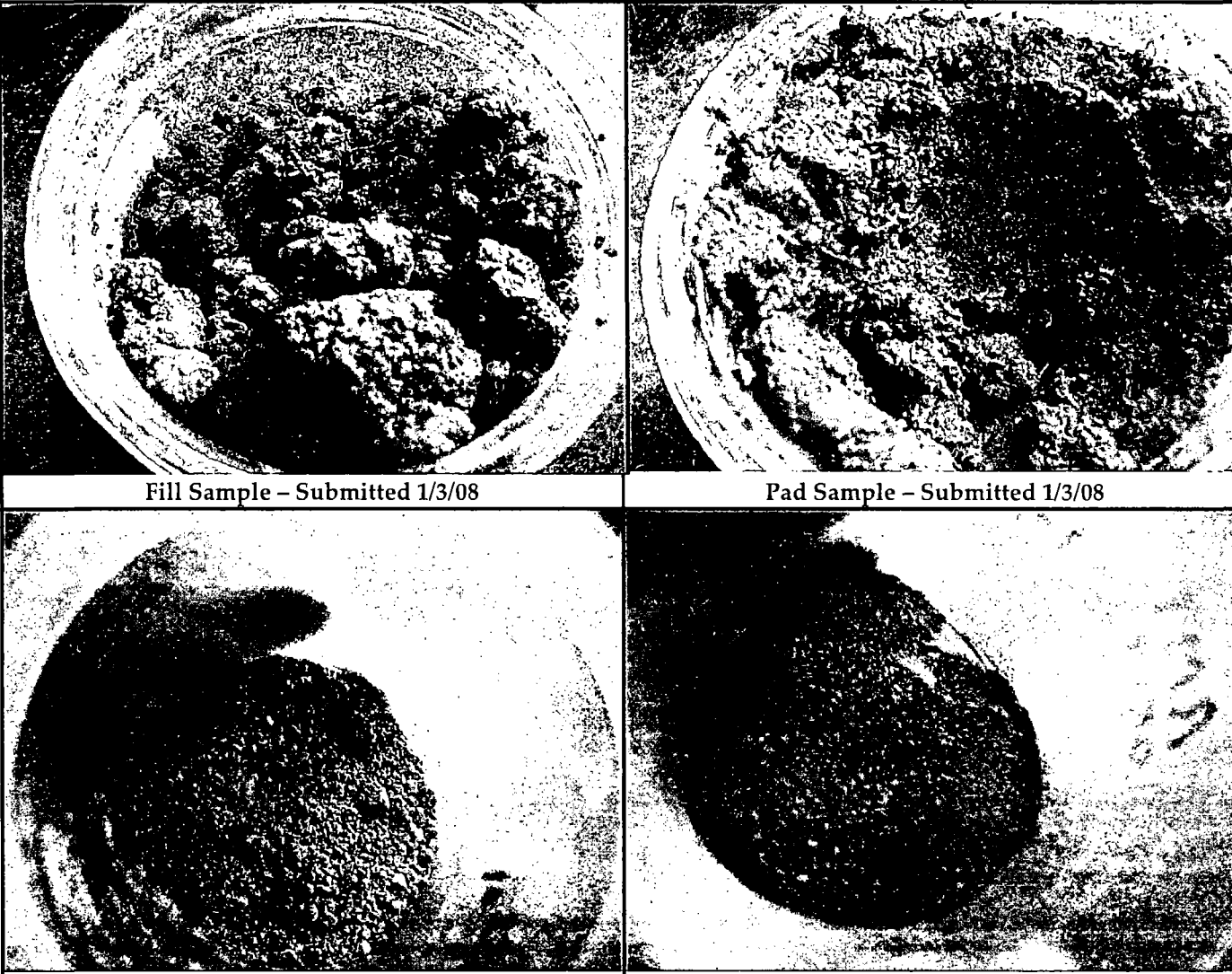
Bold = exceeds background

 = exceeded GSI

Attachment 2

Photographic Log

Photographic Log

Client Name:		Site Location: Plainwell Fill & Pad Samples		Project No.: 00-05130.05
Photo No. 1-4	Date 2/22/08			
Description Photographs taken by TriMatrix and received by RMT on 2/22/08.				
		Fill Sample – Submitted 1/3/08		Pad Sample – Submitted 1/3/08
		Dried Fill Sample – Re-Analyzed 2/12/08		Dried Sample - Analyzed 1/14/08 and Reported as Fill

Attachment 3
Letter from TriMatrix Laboratory, Inc.



February 25, 2008

Ms. Kathy Huibregtse, Vice President
RMT, Inc.
150 Patrick Blvd., Suite 180
Brookfield, WI 53045

RE: Plainwell Mill

Dear Ms. Hubregtse:

This letter documents TriMatrix review of the metals analysis on a fill material sample performed for RMT, Inc. in January 2008. The fill sample, identified as "PM Fill" (TriMatrix sample number 0801032-01) was received by TriMatrix on January 3, 2008 and analyzed for mercury on January 8, 2008 for the remaining and January 14, 2008. The chain of custody showing the sampling dates and requested analyses is attached to this letter.

As the following paragraphs detail, the metals results for sample ID PM Fill were initially reported incorrectly. The metals results for this sample were higher than expected. Consequently, RMT collected additional samples, Initial-1, Initial-2, Pit-1 and Pit-2 for metals analysis. Based on the consistent results of these four (4) samples as well as the differences in PM-Fill, TriMatrix was requested by RMT to re-digest and re-analyze the PM-Fill sample. This sample was logged in with a new number (TriMatrix 0802085-01) and analyzed. The re-analysis results did not match the initial analysis but were more consistent with the other four samples. The lab results for the additional four samples are also included with this letter.

Based on these differences, TriMatrix was asked by RMT to investigate the discrepancy. Both the original sample and the dried portions of the initial and confirmation analysis were pulled and inspected by TriMatrix' Quality Assurance Manager. The original sample was light brown in color which matched the dried portion of the confirmation analysis. The color of the dried portion from the initial analysis was light gray in color. Clearly, the initial and confirmation samples were not the same. The only other solid sample received that day was also from RMT (PM-Pad). That sample was gray in color and the appearance matched that of the dried portion for the initial sample. Based on the quality control review, it was concluded that the PM-Pad was initially digested, analyzed and then incorrectly reported as PM-Fill, thus explaining the unexpected metals results. It was further concluded that the confirmation analysis was performed on the correct PM

Fill sample and the metals results for the re-analysis properly characterized the fill sample. Photographs of these samples have been included with this letter.

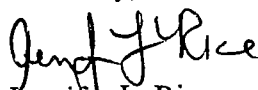
In accordance with our laboratory quality control program, a non-conformance investigation was initiated in response to this situation and is included with this letter. In response to this incident, we have already modified our metals sample recording procedures to eliminate the potential for a recurrence of this problem.

As a point of clarification, with regard to the organic results reported for this sample, the correct sample was analyzed and reported. For Volatile Organics (VOCs), there was a separate sample container collected which is stored in a refrigerator directly in the Volatile Lab. The Semi-Volatile, Pesticides and PCBs are all extracted and analyzed in a different lab area and by a different set of analysts. These organic analysts label all their glassware based on the sample/tag which is with it so it is highly unlikely the incorrect sample could have made it through our LIMS system to reporting.

Please feel free to contact me with any questions or if you need additional information. Also, please feel free to provide this letter and attachments to any agencies necessary.

On behalf of TriMatrix, I deeply apologize for all the problems this mistake has caused you and your client.

Sincerely,


Jennifer L. Rice
Project Chemist

Enclosure

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **Intial-1**
 Lab Sample ID: **0802022-01**
 Matrix: Soil
 Percent Solids:

Work Order: **0802022**
 Description: Laboratory Services
 Sampled: 02/04/08 08:05
 Sampled By: E. Vincke
 Received: 02/04/08 14:00

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
*Arsenic	4.2	0.20	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Barium	34	1.0	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Cadmium	<0.20	0.20	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Chromium	9.2	2.0	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Lead	8.6	1.0	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Mercury	<0.050	0.050	mg/kg dry wt.	1	USEPA-7471A	02/05/08	KLV	0801249
Selenium	<0.20	0.20	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Silver	<0.10	0.10	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **Intial-2**
 Lab Sample ID: **0802022-02**
 Matrix: Soil
 Percent Solids:

Work Order: **0802022**
 Description: Laboratory Services
 Sampled: 02/04/08 08:10
 Sampled By: E. Vincke
 Received: 02/04/08 14:00

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
Arsenic	5.8	0.20	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Barium	35	1.0	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Cadmium	<0.20	0.20	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Chromium	11	2.0	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Lead	10	1.0	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Mercury	<0.050	0.050	mg/kg dry wt.	1	USEPA-7471A	02/05/08	KLV	0801249
Selenium	<0.20	0.20	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Silver	<0.10	0.10	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274

ANALYTICAL REPORT

Client: RMT, Inc. - Grand Rapids Office	Work Order: 0802023
Project: Plainwell Mill	Description: Laboratory Services
Client Sample ID: Pit-1	Sampled: 02/04/08 11:30
Lab Sample ID: 0802023-01	Sampled By: E. Vincke
Matrix: Soil	Received: 02/04/08 14:00
Percent Solids:	

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
Arsenic	6.6	0.20	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Barium	57	2.0	mg/kg dry wt.	2	USEPA-6020A	02/06/08	DSC	0801274
Cadmium	<0.20	0.20	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Chromium	17	2.0	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Lead	10	1.0	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Mercury	<0.050	0.050	mg/kg dry wt.	1	USEPA-7471A	02/05/08	KLV	0801249
Selenium	<0.20	0.20	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Silver	<0.10	0.10	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **Pit-2**
 Lab Sample ID: **0802023-02**
 Matrix: Soil
 Percent Solids:

Work Order: **0802023**
 Description: Laboratory Services
 Sampled: 02/04/08 11:35
 Sampled By: E. Vincke
 Received: 02/04/08 14:00

Total Metals by EPA 6000/7000 Series Methods

Analvte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
Arsenic	6.2	0.20	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Barium	63	2.0	mg/kg dry wt.	2	USEPA-6020A	02/06/08	DSC	0801274
Cadmium	<0.20	0.20	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Chromium	16	2.0	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Lead	10	1.0	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Mercury	<0.050	0.050	mg/kg dry wt.	1	USEPA-7471A	02/05/08	KLV	0801249
Selenium	<0.20	0.20	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274
Silver	<0.10	0.10	mg/kg dry wt.	1	USEPA-6020A	02/06/08	DSC	0801274

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Attachment 4
Nonconformance Report from
TriMatrix Laboratory, Inc.



Non-Conformance Investigation Report

Client:	RMT	Project Number:	0801032/0802085		
Sample Number(s):	0801032-01	Date Initiated:	2/14/08	Date Due:	2/15/08
Initiated By:	Jennifer Rice	Document Control Number:	nc021508a		
Investigation Resulting From: <input type="checkbox"/> Internal Observation <input checked="" type="checkbox"/> Client Complaint <input type="checkbox"/> Audit <input type="checkbox"/> Failing PT Sample					

I. Area of Non-Conformance:

- ☐ Sample Receiving / Storage ☐ Bottle Prep ☐ Client Services / Reporting ☐ Other _____
☒ Inorganic (Wet Chemistry / Metals) Laboratory ☐ Organic (Volatile / Semi-Volatile / Extraction) Laboratory

II. Description of Non-Conformance:

Two samples were received for metals analysis, client ID PM-Fill (TriMatrix ID -01) and client ID PM-Pad (TriMatrix ID -02). Sample -01 was to be analyzed for total metals, and -02 for TCLP metals. Based on higher than expected results for sample number -01 and four corresponding samples, the client requested the sample be re-analyzed. Our re-analysis of the sample yielded results that were more indicative of those expected. The client is questioning whether the correct sample was initially analyzed and requested TriMatrix to conduct an internal investigation.

III. Explanation of Investigation into Non-Conformance:

A review of all documented steps, including sample log-in and labeling, sub sampling and drying, sample digestion, instrumental analysis, and final data review and reporting, revealed that all steps were performed in accordance to documented laboratory protocols. In response to this non-conformance the original samples and the dried sample aliquot of TriMatrix ID -01 were removed from storage for visual inspection. Sample -01 was light tan in color where sample -02 was a dark gray. The dried aliquot (labeled sample -01) utilized for the totals metals digestion, was similar in color (dark gray) to the sample -02. In response to our investigation a second aliquot of sample-02 was re-logged and prepared for analysis. Based on the results of the re-analysis and a visual inspection of the re-dried sample, we have concluded that the results obtained from our original testing, were generated from the wrong sample. A discussion of sample handling procedures for this initial step revealed that the container used for drying was labeled using a work-order report prior to removing the sample from storage. Because the analyst did not transfer the sample number to the drying container from the original sample bottle, we have concluded that the analyst removed the incorrect sample from storage during the sub sampling and drying procedure.

Initials: DR Date: 2/25/08

IV. Resolution:

Although all TriMatrix receipt and analytical protocols were followed, all future sub sample containers will be labeled directly from the original sample bottles. If the wrong sample is selected from storage, the pre-treatment information will be rejected by our laboratory information management system.

Initials: DR Date: 2/25/08

V. Follow-Up (if required):

Verify that the new protocol is being followed.

Initials: TS Date: 2/25/08

QA Manager: [Signature] VI. Reviewed By: [Signature]
Area Manager: Margie A. Scott

Date Completed: 02/25/08

ANALYTICAL REPORT

 Client: **RMT, Inc. - Grand Rapids Office**

 Project: **Plainwell Mill**

 Client Sample ID: **PM - Fill**

 Lab Sample ID: **0801032-01**

 Matrix: **Soil**

Percent Solids:

 Work Order: **0801032**

 Description: **Laboratory Services**

 Sampled: **01/03/08 14:22**

 Sampled By: **KKG/SM**

 Received: **01/03/08 19:20**

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
Arsenic	7.4	0.10	mg/kg dry wt.	1	USEPA-6020A	01/14/08	DSC	0800172
*Barium	180	5.0	mg/kg dry wt.	5	USEPA-6020A	01/14/08	DSC	0800172
Cadmium	1.4	0.20	mg/kg dry wt.	1	USEPA-6020A	01/14/08	DSC	0800172
*Chromium	77	10	mg/kg dry wt.	5	USEPA-6020A	01/14/08	DSC	0800172
*Lead	240	10	mg/kg dry wt.	10	USEPA-6020A	01/14/08	DSC	0800172
*Mercury	1.5	0.50	mg/kg	5	USEPA-7471A	01/08/08	JMF	0800193
*Selenium	0.73	0.20	mg/kg dry wt.	1	USEPA-6020A	01/14/08	DSC	0800172
Silver	0.56	0.10	mg/kg dry wt.	1	USEPA-6020A	01/14/08	DSC	0800172

*See Statement of Data Qualifications



ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
Project: **Plainwell Mill**
Client Sample ID: **PM - Fill**
Lab Sample ID: **0802085-01**
Matrix: **Soil**
Percent Solids:

Work Order: **0802085**
Description: **Laboratory Services**
Sampled: **01/03/08 14:22**
Sampled By: **KKG/SM**
Received: **02/07/08 14:53**

RE-ANALYSIS

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	Bv	QC Batch
Arsenic	4.7	0.10	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801401
*Barium	31	1.0	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801401
Cadmium	<0.20	0.20	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801401
Chromium	8.0	2.0	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801401
Lead	8.4	1.0	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801401
*Mercury	<0.050	0.050	mg/kg dry wt.	1	USEPA-7471A	02/12/08	DSC	0801411
Selenium	<0.20	0.20	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801401
Silver	<0.10	0.10	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801401

See Statement of Data Qualifications



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF: SR-6J

VIA ELECTRONIC AND CERTIFIED MAIL

February 19, 2008

Jennifer Hale
Environment Health & Safety, WTC 2G2
P.O. Box 9777
Federal Way, WA 98063-9777

RE: Plainwell Mill, Operable Unit #7, Allied Paper/Portage Creek/Kalamazoo River Site
Plainwell Mill Banks Emergency Action
Request to Place Containment and Erosion Control in Area D

Dear Ms. Hale:

Weyerhaeuser Company (Weyerhaeuser) is currently conducting an emergency action on the banks and floodplains of the Kalamazoo River adjacent to the Plainwell Mill (the Site) under the terms of a Consent Decree with the United States Environmental Protection Agency (EPA), Civil Action No. 1:05 CV0003 (CD). On February 12, 2008, Weyerhaeuser notified EPA via phone call that during the February 5th, 2008 excavation of the far eastern portion of Area D, denoted on Figure 1, an oily sheen was noted on the water. RMT – Weyerhaeuser's general contractor for the project – responded by booming the area, covering the area with clay and installing river rock as erosion control. Additionally, RMT collected samples along the rest of Area D to delineate additional locations where similar conditions may exist, i.e. subsurface non-paper residual material contaminated with polychlorinated biphenyls (PCB) at concentrations similar to confirmation samples taken in Area D where the oily sheen was noted.

Weyerhaeuser requested via phone call on February 13, 2008, approval to place cover and erosion control over the area shaded in brown on Figure 1 in lieu of excavation of the area. EPA is approving the placement of cover and erosion control over the area shaded brown on Figure 1 as an interim measure. While this interim measure is in place, EPA expects additional information be gathered to determine:

1. The cause of the oily sheen observed during the late January excavation, including consideration of whether a non-aqueous phase liquid (NAPL) was the cause;
2. Whether NAPL is the cause of high PCB concentrations at sample locations: PM-SD-041, PEX-1, and PEX-2; and
3. Whether NAPL, if present, could be entering into the Kalamazoo River.

Plans to gather this additional information should be proposed to EPA and the Michigan Department of Environmental Quality (MDEQ) no later than March 5, 2008, with implementation of the plans to begin within five calendar days of EPA's approval of the plans.

Thank you for your attention to this matter. Please do not hesitate to call me at 312.886.1434, should you have any questions related to the project.

Sincerely,

A handwritten signature in black ink, appearing to be 'S. Chummar', with a stylized, looped 'S' and a trailing line.

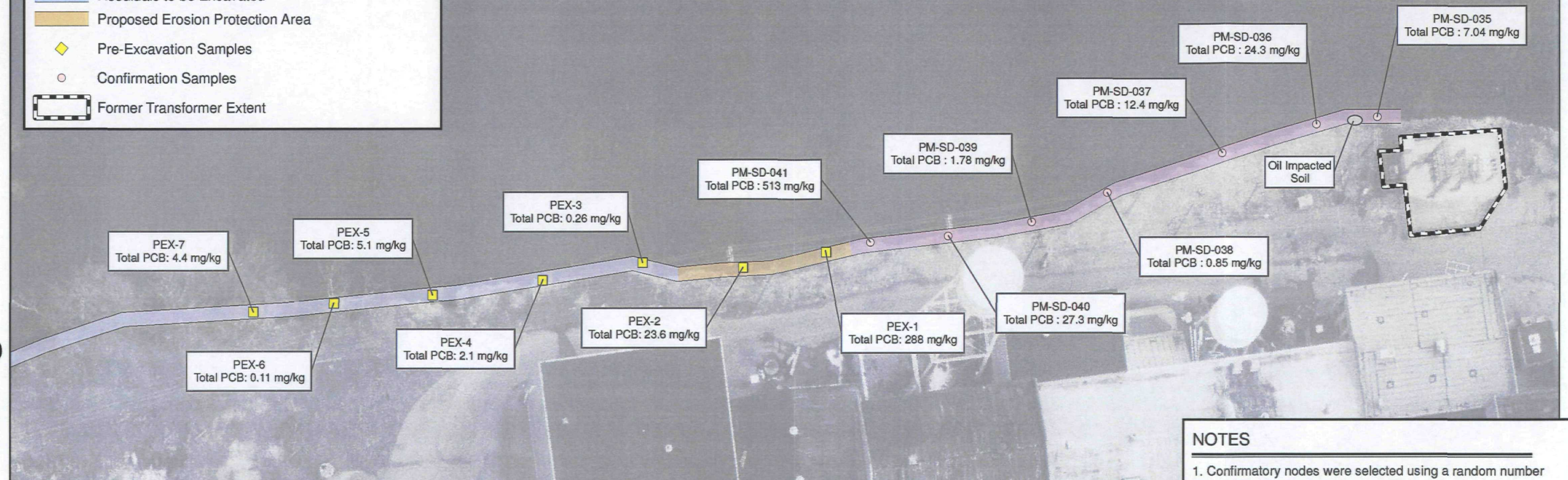
Sam Chummar, Remedial Project Manager
U.S. EPA Region 5
Superfund Division – Remedial Response Branch #1
77 W Jackson Blvd. (SR-6J)
Chicago, IL 60604

cc: Eileen Furey, C-14J
James Saric, SR-6J
Michael Berkoff, SR-6J
Paul Bucholtz, MDEQ

Legend

Bank Status

- Residuals Excavation & Erosion Protection Complete
- Residuals to be Excavated
- Proposed Erosion Protection Area
- Pre-Excavation Samples
- Confirmation Samples
- Former Transformer Extent




NOTES

1. Confirmatory nodes were selected using a random number generator.
2. All locations are approximate.
3. "PEX" denotes samples collected prior to excavation

0 12.5 25 50
Feet
1 inch equals 50.016696 feet



PROJECT: WEYERHAEUSER COMPANY KALAMAZOO RIVER SUPERFUND SITE		
SHEET TITLE: ZONE D SAMPLING LOCATIONS PLAINWELL MILL BANKS		
DRAWN BY:	SCALE: AS NOTED	PROJ. NO.: 00-05130.04
CHECKED BY:		FILE NO.: 51300404
APPROVED BY:	DATE PRINTED: 2/11/08	FIGURE 1
DATE: FEBRUARY 2008		
		
150 N. Patrick Blvd., Suite 180 Brookfield, WI 53005-5854 Phone: 262-879-1212 Fax: 262-879-1220		



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF: SR-6J

VIA ELECTRONIC MAIL AND USPS

October 31, 2007

Jennifer Hale
Environment Health & Safety, WTC 2G2
P.O. Box 9777
Federal Way, WA 98063-9777

RE: Plainwell Mill, Operable Unit #7, Allied Paper/Portage Creek/Kalamazoo River Site
Plainwell Mill Banks Emergency Action
Response to Weyerhaeuser October 25, 2007 Letter

Dear Ms. Hale:

As you know, the United States Environmental Protection Agency (U.S. EPA) provided comments on the draft *Plainwell Mill Banks Emergency Action Design Report* (DR) to Weyerhaeuser in a letter dated October 10, 2007. By letter dated October 16, 2007, Weyerhaeuser responded to U.S. EPA's comments. The U.S. EPA identified concerns regarding the adequacy of Weyerhaeuser's responses during phone calls on October 18 and 25, 2007. In a letter dated October 25, 2007, Weyerhaeuser provided revised responses, and at that time requested: (1) conditional approval of the revised DR; (2) formal written approval of the addended *Multi-Area Quality Assurance Project Plan* (QAPP) and *Multi-Area Field Sampling Plan* (FSP); and (3) acknowledgement of receipt of the final *Health and Safety Plan* (HASP).

The U.S. EPA is conditionally approving the DR, with final approval pending U.S. EPA's receipt of a finalized version of the DR that incorporates the revisions proposed in Weyerhaeuser's letters of October 16 and 25, 2007. Additionally, U.S. EPA is approving the addended FSP, and acknowledges receipt of the final HASP.

The U.S. EPA is also approving the addended QAPP, although U.S. EPA continues to have serious reservations about Weyerhaeuser's proposal to use RMT -- Weyerhaeuser's general contractor for this project -- to validate/verify data generated by Weyerhaeuser's laboratory. U.S. EPA strongly recommends that an independent third party (*i.e.* a party unrelated to either RMT or Weyerhaeuser) be used for data validation/verification. You should be aware that, if Weyerhaeuser continues to insist on using RMT as its data validator, U.S. EPA will consider contracting with an independent data validator as part of its oversight of this project.

Thank you for your attention to this matter. Please do not hesitate to call me at 312.886.1434, should you have any questions related to the project.

Sincerely,

A handwritten signature in black ink, appearing to be 'SC' followed by a long horizontal stroke.

Sam Chummar, Remedial Project Manager
U.S. EPA Region 5
Superfund Division – Remedial Response Branch #1
77 W Jackson Blvd. (SR-6J)
Chicago, IL 60604

cc: Eileen Furey, C-14J
James Saric, SR-6J
Michael Berkoff, SR-6J
Paul Bucholtz, MDEQ

From: <Chummar.Sam@epamail.epa.gov>
To: <jennifer.hale@weyerhaeuser.com>
Date: 7/16/2007 6:09 PM
Subject: Plainwell Mill Bank Recon and Design Investigation

CC: <BUCHOLTP@michigan.gov>, <Furey.Eileen@epamail.epa.gov>, <Saric.James@ep...>

Jennifer -

Region 5 has taken a preliminary look at the Weyerhaeuser Project Memorandum (Plainwell Mill Bank Reconnaissance and Design Investigation) submitted today (July 16, 2007) as well as its revision (submitted also on July 16, 2007) by RMT on behalf of Weyerhaeuser. Though Region 5 still has comments, which will be expressed after a more thorough review, Region 5 believes that field work proposed in the document may begin, as per your schedule.

Sam Chummar
U.S. EPA Region 5
77 W Jackson (SR - 6J)
Chicago, IL 60604
Phone:(312) 886-1434
Fax:(312) 886-4071

Appendix B

Construction Field Log

Summary and Photographs

Weyerhaeuser Inc.
Plainwell Mill Banks Emergency Action Construction Field Notes

<u>Date</u>	<u>Description of work in progress</u>	<u>Field problems</u>	<u>Subcontractor on site</u>	<u>Regulatory agency on site</u>
10/18/2007	Integrity Tree Service mobilized a hydraulic tree mower to site and began mowing trees less than 3" in diameter. Integrity Tree Service left site and returned with a tree skidder to remove trees mowed.	None	Integrity Tree Service- 1 Operator	None
10/19/2007	Integrity Tree Service mobilized a hydraulic tree cutter/buncher to site and began cutting trees over 3" in diameter. Integrity Tree Service mobilized tree chipper to the site and began chipping felled trees. Integrity Tree Service removed all trees and chipped all trees not needing the assistance of the excavator on the river bank. Integrity Tree Service chipped on semi load of trees and removed from the site. Staged remaining trees for chipping with trees removed from the river bank.	None	Integrity Tree Service- 1 Operator	None
10/22/2007	Integrity Tree Service demobilized hydraulic mower from site. Integrity Tree Service completed cutting and chipping trees on the site. Integrity Tree Service demobilized cutter/buncher and chipper from site.	None	Integrity Tree Service- Three Operators	None
10/23/2007	Earl began working on the soil storage area, preparing the area for liner, removing large concrete, rocks and generally shaping the area.	None	None	None
10/24/2007	Earl continued working on the soil storage area, preparing the area for liner, removing large concrete, rocks and generally shaping the area.	None	None	None
10/25/2007	Earl continued working on the soil storage area, preparing the area for liner, removing large concrete, rocks and generally shaping the area.	None	None	None
10/29/2007	Earl continued working on the soil storage area, preparing the area for liner, removing large concrete, rocks and generally shaping the area.	None	None	None
10/30/2008	Earl continued working on the soil storage area, preparing the area for liner, removing large concrete, rocks and generally shaping the area. Scheduled CAT D-4 bulldozer for delivery tomorrow to finish soil stockpile area. Scheduled CAT 312 excavator for delivery tomorrow, took CAT 330 excavator off rent.	None	None	None
10/31/2007	Unloaded CAT D-4 bulldozer, began final grading the sediment staging area. Unloaded CAT 312 Excavator, when grading completed in the sediment staging area, began excavating the anchor trench for liner installation. Electrician on site checked generator for use in the trailer. Cannot use due to voltage requirements for the water treatment plant.	None	None	None
11/1/2007	Completed final grading of sediment staging area. Completed excavating anchor trench for liner installation. Unloaded CAT diesel generator. Unloaded CAT 563 smooth drum roller. Rolled and compacted bottom of sediment staging area for liner installation. Scheduled electrician for Friday to hook up generator for office trailer. Checked liner for installation methods.	None	None	None
11/2/2007	Electrician on site in the AM to hook generator to office trailer. Secured site for weekend.	None	None	None
11/5/2007	Rigged liner material to the sediment staging area. Unrolled liner along the 200' length of the sediment staging area. Called liner company, checked folding pattern of the liner. Liner too heavy for personnel at the site, scheduled laborers for Wednesday, due to predicted high winds on Tuesday.	Liner too heavy to move with manpower at the site. Will need additional manpower to pull.	Catskill- One operator	None
11/6/2007	Due to high winds, no liner work today.	Weather- 30 mph sustained winds, gusts to 50 mph. Cannot deploy liner in this wind. Wind expected to die off tonight, laborers scheduled for Wednesday.	Catskill- One operator	None
11/7/2007	Deployed liner over the sediment staging area. Placed excavated dirt/sand into anchor trench to hold liner in place.	None	Catskill- One operator. Nine Laborers from Labor Ready-Grand Rapids.	None
11/8/2007	Placing sand over sides and bottom of the sediment staging area. Covering liner with 6-12" sand. Checked and layed out bank for placement of turbidity curtain. Went to Grand Rapids, picked up 300' of 3/8" chain to provide additional anchoring for turbidity curtain.	None	Catskill- One operator	None
11/9/2007	Continued placing sand over sides and bottom of the sediment staging area. Wired 300' of 3/8" chain to bottom of turbidity curtain. Assembled 350' of turbidity curtain and placed in river.	None	Catskill- One operator	None
11/12/2007	Completed placing sand over sides and bottom of the sediment staging area. Unloaded CAT Off Road Truck. Began excavating sediment from the river bank, beginning at the west end of the site.	None	Catskill- One operator	None

<p style="text-align: center;">Weyerhaeuser Inc. Plainwell Mill Banks Emergency Action Construction Field Notes</p>				
<u>Date</u>	<u>Description of work in progress</u>	<u>Field problems</u>	<u>Subcontractor on site</u>	<u>Regulatory agency on site</u>
11/13/2007	Continued excavating sediment from the river edge, area A. Unloaded CAT 325 Excavator. Managing excavated sediments in the staging area with CAT 325 excavator.	Sediments excavated are dryer than originally anticipated. Sediments not sliding to the bottom of the staging area. Brought on CAT 325 excavator to move sediments from the dump point to the bottom of the staging area. Used CAT 325 Long Reach in the morning, but lost too much production time to continue in this fashion.	Catskill- One operator	None
11/14/2008	Continued excavating sediment from the river edge, area A. Managing excavated sediments in the staging area with CAT 325 excavator.	None	Catskill- One operator	EPA, MDEQ
11/15/2007	Continued excavating sediment from the river edge, area A. Managing excavated sediments in the staging area with CAT 325 excavator.	None	Catskill- One operator	EPA, MDEQ
11/16/2007	Continued excavating sediment from the river edge, area A. Managing excavated sediments in the staging area with CAT 325 excavator.	None	Catskill- One operator	MDEQ
11/19/2007	Continued excavating sediment from the river edge, area A. Managing excavated sediments in the staging area with CAT 325 excavator.	None	Catskill- One operator	MDEQ
11/20/2007	Collected confirmatory samples from Area A. Managing excavated sediments in the staging area with CAT 325 excavator. Demobilized for Holiday weekend.	None	Catskill- One operator	MDEQ
11/26/2007	Mobilized back to the site from Holiday weekend.	None	None	MDEQ
11/27/2008	Stockpiled rip rap material on site. Re-excavated eastern area of Area A to ensure material removed, pending analytical testing.	After excavation, banks too steep to place the rip rap required for the bank erosion protection. Took photos of the bank and spoke with Jim Hutchens regarding the problem.	Catskill- One operator	MDEQ
11/28/2007	Stockpiled rip rap material on site. Awaiting decisions from Engineers and RMT regarding the plan for the bank in Area A.	Jim Hutchens, John Rice working on the remedy for the protection of the bank in Area A. Discussed several options with Jim Hutchens, late in the day it was decided to place a clay "slope" at a 2:1 angle to allow for the placement of the rip rap layer. Ordered clay to be delivered on Thursday.	Catskill- One operator	None
11/29/2007	Began importing clay for placement in area A. Began placing clay on the bank in Area A. placing clay in a 2:1 slope.	None	Catskill- One operator	None
11/30/2007	Continued importing clay for placement in area A. Continued placing clay on the bank in Area A. placing clay in a 2:1 slope.	None	Catskill- One operator	None
12/3/2007	Began placing washed rock in the river bed and up two (2) feet from the water. Rock in lieu of geofabric. Began also placing rip rap over the washed rock layer. Completed rip rap and rock installation at the end of the day.	None	Catskill- One operator	None
12/4/2007	Re-located silt curtain upstream to encompass the next section of Area A to be excavated. Once silt curtain moved and anchored, began excavating the next section of Area A, digging west to the east.	None	None	None
12/5/2007	Continued excavating western section of area A. Managing excavated materials at the sediment staging area.	None	None	None
12/6/2007	Completed excavation of eastern end of area A. Managing excavated materials at the sediment staging area.	None	None	None
12/7/2008	Ordered clay trucks for Monday, to begin backfilling operations. Late in the day, received initial sample results, will need to re-dig eastern half of Area A. Cancelled clay trucks for Monday. Unable to manage both excavation activities and the importation of clay.	None	None	None
12/10/2007	Upon arrival at the site, received the final results from first sampling event in Area A. Samples previously reported as over 1 ppm were in error. Actual results were below 1 ppm. Received authorization to backfill first section of Area A. Called to re-schedule trucks. None available till Tuesday, AM. Spent remainder of the day performing routine maintenance on the heavy equipment.	None	None	None
12/11/2007	Received clay fill, stockpiled on-site. Began placing clay on the bank in Area A at a 2:1 slope. Placed washed rock and rip-rap at the toe of the slope up 2 feet from the water line.	None	None	None

Weyerhaeuser Inc.
Plainwell Mill Banks Emergency Action Construction Field Notes

<u>Date</u>	<u>Description of work in progress</u>	<u>Field problems</u>	<u>Subcontractor on site</u>	<u>Regulatory agency on site</u>
12/12/2007	Re-excavated sample location #13. Excavated all material to gravel river bottom. Re-sampled #13. Backfilled section #13 with clay, fine stone and rip rap stone. Assisted with sample collection prior to moving to Area B. Removed upstream turbidity monitor and placed approximately 100' east of next dig area. Moved turbidity curtain to the next excavation area. Began excavating river bank in Area B.	None	None	None
12/13/2007	Continued excavating river bank in Area B. Completed excavation in Area B. Collected confirmation samples from Area B.	None	None	None
12/14/2007	Awaiting confirmation sample results. Perform miscellaneous site/equipment maintenance.	None	None	None
12/17/2007	Received confirmation results late in the day. Began Backfilling excavated portions in Area B.	None	None	None
12/18/2007	Continued backfilling excavated portions of Area B. Completed backfilling excavated portions of Area B. Moved upstream turbidity monitors farther east of next excavation area. Moved turbidity curtain to next dig location. Began excavating next section of Area B.	None	None	None
12/19/2007	Continue excavating river bank in Area B.	None	None	None
12/20/2007	Complete excavating section of Area B. Collected confirmation samples for excavated section of Area B.	None	None	None
Removal activities were suspended in observance of the winter holidays from December 20th, 2007 to January 2nd, 2008.				
1/2/2008	Mobilized back to the site from Christmas/New Year Holiday. Roads from Indiana ice covered and slick, took 7.5 hours to drive 260 miles.	None	None	None
1/3/2008	Started Machines-Due to cold weather, needed to jump start excavators. Allowed to warm up. Placed clay in excavated section of Area B. Placed washed rock over clay at river edge. Stockpiled received rock, clay, field stone. Collected sludge sample for analysis.	12-14" of snow on the ground. Rock trucks and clay trucks having a hard time getting around the site for material deliveries.	None	None
1/4/2008	Placed field stone over washed rock in backfilled area of Area B. Completed placing field stone. Moved turbidity curtain to next area. Made repairs to turbidity curtain. Began excavating next section of Area B. Assisted in relocating turbidity monitor (downstream). Fueled equipment. Worked on access gate to site-rollers covered with dirt, freezing at night. Dug out rollers.	None	None	None
1/5/2008	Completed excavation of sediments in area B. Collected verification samples of the excavated portion of Area B.	None	None	None
1/7/2008	Awaiting verification sample results. Stacking sediments in the storage area to make more room.	Warmer weather. Snow cover has melted and the frost has come out of the ground. Ground is saturated, with more rain expected on Tuesday. Equipment unable to move about the site.	None	None
1/8/2008	Awaiting verification sample results. Raining heavy Checked site, water level in the storage area in need of pumping to frac tank. Scheduled Pro Act to be on site Wednesday AM to begin preparations to start pumping activities and water treatment.	After ice/snow melt, and current rain event. Water level in the storage area higher. To ensure no release, have pumps on the way to begin pumping on Wednesday.	None	None
1/9/2008	Awaiting verification sample results. Pro-Act on site at 8:30 AM. Began setting up pumps and hoses to pump water from storage area to the frac tank. Pumped frac tank full, gained enough room in the storage area in case of additional rain/snow.	Pumped frac tank full, 20,000 gallons, still a lot of water remaining in storage area. Due to previous commitments, Pro Act not able to begin water treatment until next Monday. Pro Act scheduled.	None	None
1/10/2008	Received sample results, #2 and #5 require re-excavation. Excavated sample areas and re-sampled. Installed tank heaters inside frac tank to prevent freezing.	None	None	None
1/11/2008	Due to recent thaws and rain, river running fast. Made attempt to backfill the excavated area, water running too fast to allow for placement. As clay base was placed in the river, before we could compact the clay, the river washed it out. Moved excavated materials inside storage area to allow water to run to the pump when pumping commences.	River running too fast to place clay. Cannot place clay till river level/velocity slows.	None	None

Weyerhaeuser Inc.
Plainwell Mill Banks Emergency Action Construction Field Notes



<u>Date</u>	<u>Description of work in progress</u>	<u>Field problems</u>	<u>Subcontractor on site</u>	<u>Regulatory agency on site</u>
1/14/2008	Pro Act on site at 8 AM, began rigging pumps and hoses to treat water. Began treating water from frac tank, through system discharge to river. Collected water samples from influent, intermediate and effluent locations at 12:30 PM. Water treatment progressing at 120-140 GPM. Collected water samples from influent, intermediate and effluent locations at 4:30 PM. Discontinued water treatment at 5 PM, rigged system to recirculate overnight to prevent freezing of system. Water treated today was 41,000 gallons.	River still very high	None	None
1/15/2008	Pro Act on site at 8 AM, began shifting pumps and hoses to continue to treat water. Freezing problems overnight. Started treating water at 10 AM. Hoses/pumps frozen. Completed treating water at 1 PM. Began blowing down the system to prevent freezing in case system needed again. Water treated today 17,000 gallons. Total volume of water treated was 58,441 per Pro Act flow meter. Bottom of tanks frozen (slurry line) thawing and trying to drain.	River still very high. Cannot place clay in the river.	None	None
1/16/2008	Checked water treatment system, all secure, no visible problems. Worked on storage area. Moving sediments to allow for more room when excavating resumes. Secured site. Demobilizing on Thursday, due to high water levels and velocity.	River still very high. Cannot place clay in the river.	None	None
Work was suspended from January 16th until January 28th due to the high water level of the Kalamzoo River				
1/28/2008	Mobilized to the site from Indiana. Finish backfill in Zone B. Prepare to excavate in Area D. Place 300 ft of new silt curtain along the banks in the east section of Area D. Began excavating east area of area D.	None	None	None
1/29/2008	Continued excavating river bank in Area D. Managing excavated materials at the sediment staging area. Placed turbidity monitors upstream and downstream of Area D.	None	None	None
1/30/2008	Continued excavating river bank in Area D. Managing excavated materials at the sediment staging area.	None	None	None
1/31/2008	Collected confirmation samples in Area D. Demobilized for the weekend.	None	None	None
2/4/2008	Mobilized back to the site from Indiana. Awaiting verification sample results. Collected samples of the clay fill source and area A placed fill.	None	None	None
2/5/2008	Received verification sample results. East area of area D requires re-excavation. Began excavation of area D. Noticed slight oil sheen on river water surface. Placed absorbent booms in the river to collect sheen. Terminated excavation activities. Located source of sheen in excavated area. Placed clay "plug" in area.	Noticed oil sheen in water. Placed booms out and placed clay plug in the portion of the work that seemed to be producing the sheen. After placing the clay plug, no visible oil sheen present.	None	None
2/6/2008	Placed clay cap over the excavated portion of Area D. Placed rip rap over the clay plug to prevent erosion.	None	None	None
2/7/2008	Separated excavated material in the staging area, materials high in PCB's. Ordered two (2) roll off boxes for delivery on 2/8	None	None	None
2/8/2008	Received two (2) roll off boxes. Placed liner in to roll off box, then placed the material excavated on the re-dig into the roll off box to segregate higher level soils.	None	None	None
2/11/2008	Road conditions treacherous. Waited till 9 am to travel to site. Roads still icy. Started machines, allowed warm up due to very low temps. Awaiting sample results. Checked site, all fine.	None	None	None
2/12/2008	Warmed equipment. Received sample results (pre-ex). All low to #3 sample. (150' from east end of previous dig). Excavated sediments to 180' from high sample area. To complete dig tomorrow.	None	None	None
2/13/2008	Warmed equipment. Checked turbidity curtain prior to excavating. Found damage to curtain, appears ripped/sliced. Due to damage to curtain, unable to dig. Phoned JH, informed him of damage. Plan to collect confirmation samples from the excavated portion of the area. Collected confirmation samples, pre-ex samples, and additional sample. Ordered additional curtain for delivery. Scheduled delivery on Tuesday, 2/19.	Found damage to turbidity curtain. Informed JH, ordered additional curtain. Could not find the cause for the damage. Possibly ice or debris.	None	MDEQ/CDM
Work was suspended from February 13th until February 28th due to the high water level of the Kalamzoo River				
2/28/2008	RMT met with USEPA, MDEQ and CDM to determine the applicability of various sample collection techniques for sediment confirmation sampling.	None	None	EPA, MDEQ, CDM
3/3/2008	Resampled west Area D. Sheen found on river in the sampling area. Deployed oil booms to contain the sheen.	Noticed sheen on the river within the silt current in the removal area. Deployed oil booms to contain the sheen. The source was a stormwater outfall.	None	CDM
3/4/2008	Backfilled west end of Area D. Moved silt curtain and manhole risers to the next removal area.	None	None	None
3/5/2008	Began excavating in the eastern end of Area C. Managed excavated material at the sediment staging area.	None	None	None
3/6/2008	Finish excavating in the eastern end of Area C. Collected confirmation samples in the afternoon.	None	None	CDM

Weyerhaeuser Inc.
Plainwell Mill Banks Emergency Action Construction Field Notes



<u>Date</u>	<u>Description of work in progress</u>	<u>Field problems</u>	<u>Subcontractor on site</u>	<u>Regulatory agency on site</u>
3/7/2008	Awaiting sampling results. Managed excavation spoils in the containment pad. Performed maintenance on equipment. Demobilized from the site for the weekend.	None	None	None
3/10/2008	Awaiting sample results. Removed damaged silt curtain. Removed manhole risers. Loaded accumulated brush/debris from banks/nearshore that were snagging turbidity curtain, staged in lot. Replaced silt curtain and manhole risers.	None	None	None
3/11/2008	Received sample results @ 6AM. Grand Rapids personnel on site @ 10 AM. Re-excavated 2 areas (48, 51). Re-sampled excavated areas. Backfilled excavated areas. Monitored turbidity, all good	None	None	EPA
3/12/2008	Repaired grease line on long stick excavator-pulled off by tree branch. Stacked excavated material from yesterday in the sediment storage area. Worked on removing fines from backfill rock. Moved silt curtain to last location. Two sections of curtain damaged, removed and replaced. Moved concrete risers to anticipated locations	None	None	EPA, MDEQ
3/13/2008	Excavated material from the next 150 ft of banks. Grand Rapids personnel and CDM on-site at 1230, collect samples in the afternoon.	None	None	CDM
3/14/2008	Re-attached turbidity curtain at west end. Excavate 6 test pit locations in remaining 180 feet of excavation area, samples collected from each test pit. Measured for locations of samples. Continued clearing banks for silt fence placement. Attempting to locate field stone for river backfill. Awaiting word from Weyerhaeuser/EPA for approval of last 180 feet of bank.	Smith and Sons Gravel pit is inaccessible due to the recent thaws. Allowing to dry over the weekend to move river rock hopefully Monday. Trevor Smith attempting to locate an additional source of backfill material. Stressed to Trevor that the backfill needs to be CLEAN.	None	None
3/15/2008	Continued clearing and grubbing silt fence alignment. Awaiting confirmation sample results.	None	None	None
3/17/2008	Completed clearing silt fence alignment. Scheduled silt fence installation and Pro Act (water treatment sub) for Wednesday, 3/19. Clean site, loaded damaged turbidity curtain into 30 yard roll-off box. Awaiting confirmation sample results.	None	None	None
3/18/2008	Received confirmation sample results. Three (3) samples high, #'s 55, 56, 57. #57 borderline hazardous, need to segregate. Removed turbidity curtain from roll-off box, moved into position, lined and began re-dig at location #57. Completed re-dig of location #57, secured tarp in box, began re-dig at #'s 55, 56. Completed re-dig of #'s 55, 56, materials placed into sediment staging area. Re-sampled areas #'s 55, 56, 57.	None	None	None
3/19/2008	Placed geo-fab on bank of area #55, #56, #57. Backfill same area with gravel and field stone. Started water treatment system. Re-circulated water, sampled for analysis. Started silt fence installation on east end of property, heading west. RMT/agency on-site, collected samples from last 180 ft of bank.	None	Pro-Act- water treatment Frontier Solutions- Silt fence installation	EPA, MDEQ
3/20/2008	Continued to treat water. Continued silt fence installation.	None	Frontier Solutions- Silt fence installation	EPA, MDEQ
3/21/2008	Continued to treat water. Finished silt fence installation.	None	Frontier Solutions- Silt fence installation	None
3/24/2008		None	None	None
3/25/2008		None	None	None
3/26/2008		None	None	None
3/27/2008		None	None	None
3/28/2008		None	None	None
3/31/2008		None	None	None
4/1/2008		None	None	None
4/2/2008	Continue to treat water. Continue to grade area for truck access. Grade main road. Remove silt curtain and concrete structures from river	None	None	None
4/3/2008	Discharge approx. 20,000 gal treated water. Started treating approx. 20,000 water from pit. Covered last area along river with geo-fab, washed rock and field stone	None	None	None
4/4/2008	Moved material in pit to dry. Continue treating approx. 20,000 water from pit.	None	None	None
4/5/2008	Continued to move material in pit to dry. Continue treating approx. 20,000 water from pit.	None	None	None
4/7/2008	Continued to move material in pit to dry. Continue treating approx. 20,000 water from pit.	None	None	None
4/8/2008	Collected waste characterization samples. Continued to move material in the pit to dry. Received load of calciment ash, mixed into material in pit. Performed air monitoring near the south fenceline during mixing.	None	None	None
4/9/2008	Continued to move material in pit to dry. Received two loads of calciment ash, mixed into material in pit. Performed air monitoring near the south fenceline during mixing.	None	None	None
4/10/2008				
4/11/2008				
4/14/2008				
4/15/2008				

Weyerhaeuser Inc. Plainwell Mill Banks Emergency Action Construction Field Notes				
<u>Date</u>	<u>Description of work In progress</u>	<u>Field problems</u>	<u>Subcontractor on site</u>	<u>Regulatory agency on site</u>
4/16/2008	Continued to move material in pit to dry. Received two loads of calciment ash, mixed into material in pit. Performed air monitoring near the south fenceline during mixing.	None	None	None

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
Photo No. 1	Date 03/29/2007		
Description West end of Zone A floodplain looking East prior to excavation.			
Photo No. 2	Date 03/29/2007		
Description East end of the Zone A floodplain looking east prior to excavation.			

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
Photo No. 3	Date 03/29/2007		
Description West end of the Zone B banks looking east prior to excavation.			
Photo No. 4	Date 03/29/2007		
Description Dense vegetation along the steep Zone B banks prior to excavation.			

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
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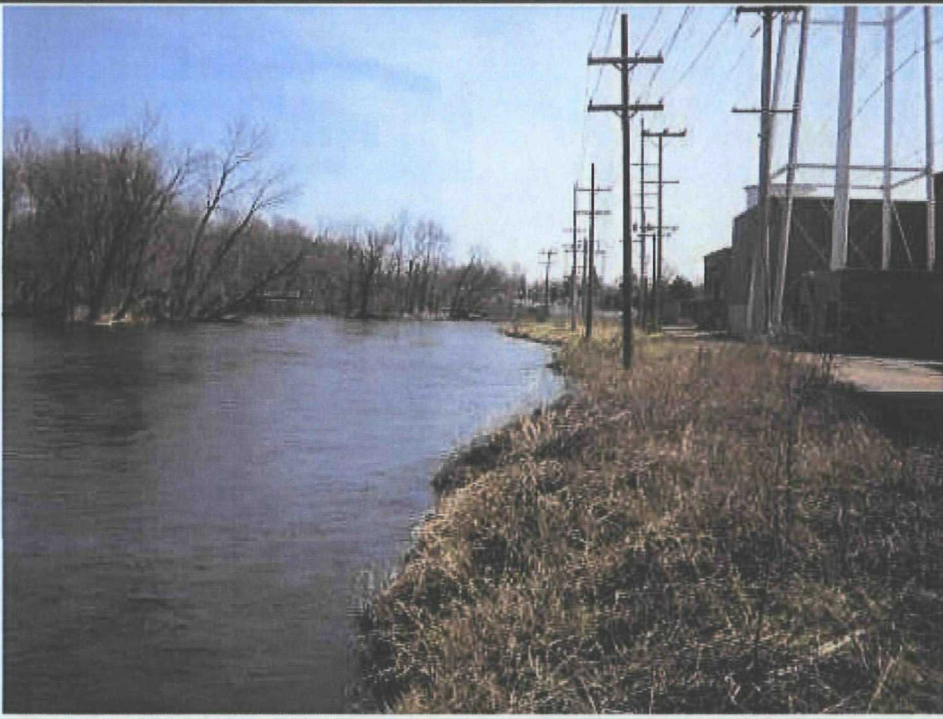
Photo No. 5	Date 03/29/2007	
Description Banks in the west end of Zone C looking east prior to excavation.		

Photo No. 6	Date 03/29/2007	
Description Banks in the east end of Zone C looking west prior to excavation.		

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
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Photo No. <div style="text-align: center;">7</div>	Date <div style="text-align: center;">03/29/2007</div>	<div style="border-bottom: 1px solid black; padding-bottom: 5px;"> Description Banks in the west end of Zone D looking west prior to excavation. </div> <div style="height: 200px;">  </div>
Photo No. <div style="text-align: center;">8</div>	Date <div style="text-align: center;">03/29/2007</div>	<div style="border-bottom: 1px solid black; padding-bottom: 5px;"> Description Banks in the east end of Zone D looking east prior to excavation. </div> <div style="height: 200px;">  </div>

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
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Photo No. 9	Date 03/29/2007	
Description Large depression east of the former clarifiers. Future location of the residuals containment pad.		

Photo No. 10	Date 10/22/2007	
Description Cleared and grubbed banks in Zone A.		

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
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Photo No. 11	Date 10/22/2007	
Description Cleared and grubbed banks in Zone B.		

Photo No. 12	Date 10/22/2007	
Description Cleared and grubbed banks in Zone C.		

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
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Photo No. 13	Date 10/22/2007	
Description Cleared and grubbed residuals containment pad area.		

Photo No. 14	Date 11/12/2007	
Description Excavation in the western end of Zone A.		

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
Photo No. 15	Date 11/16/2007		
Description Excavation in Zone A.			
Photo No. 16	Date 11/16/2007		
Description Residuals from Zone A in the on-site residuals containment pad, with the water treatment system in the background.			

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
Photo No. 17	Date 11/29/2007		
Description Backfill placed to stabilize the banks in Zone A after completion of the removal action.			
Photo No. 18	Date 12/04/2007		
Description Restored banks in Zone A.			

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
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Photo No. 19	Date 12/06/2007	
Description Completed bank in the foreground with excavation in the east end of Zone A in the background.		

Photo No. 20	Date 01/05/2008	
Description Restored banks in the western end of Zone B.		

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
Photo No. 21	Date 01/05/2008		
Description Excavated area in the eastern end of Zone B.			
Photo No. 22	Date 01/31/2008		
Description Eastern removal area of Zone D.			


Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
Photo No. 23	Date 2/5/08		
Description Area D – Construction debris encountered			
Photo No. 24	Date 2/5/08		
Description Slight sheen created from penetrating construction debris			

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
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Photo No. 25	Date 04/01/2008	
Description Completed banks in the western end of Zone C, looking east.		

Photo No. 26	Date 04/01/2008	
Description Completed banks in the western end of Zone C, looking west.		

Photographic Log






Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
Photo No. 27	Date 04/01/2008		
Description Residuals in the containment pad at the completion of the removal action.			

Photo No. 28	Date 04/16/2008	
Description RMT mixing calciment bottom ash to reduce the water content of the residuals to facilitate disposal in an off-site landfill.		

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
Photo No. 29	Date 05/13/2008		
Description Dewatered residuals in the on-site containment pad awaiting disposal.			
Photo No. 30	Date 10/28/08		
Description Moving residuals in the containment pad during removal activities.			

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
Photo No. 31	Date 10/31/08		
Description Loading containment pad liner and impacted soil.			
Photo No. 32	Date 11/10/08		
Description Containment pad area after removal and disposal of residuals.			

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
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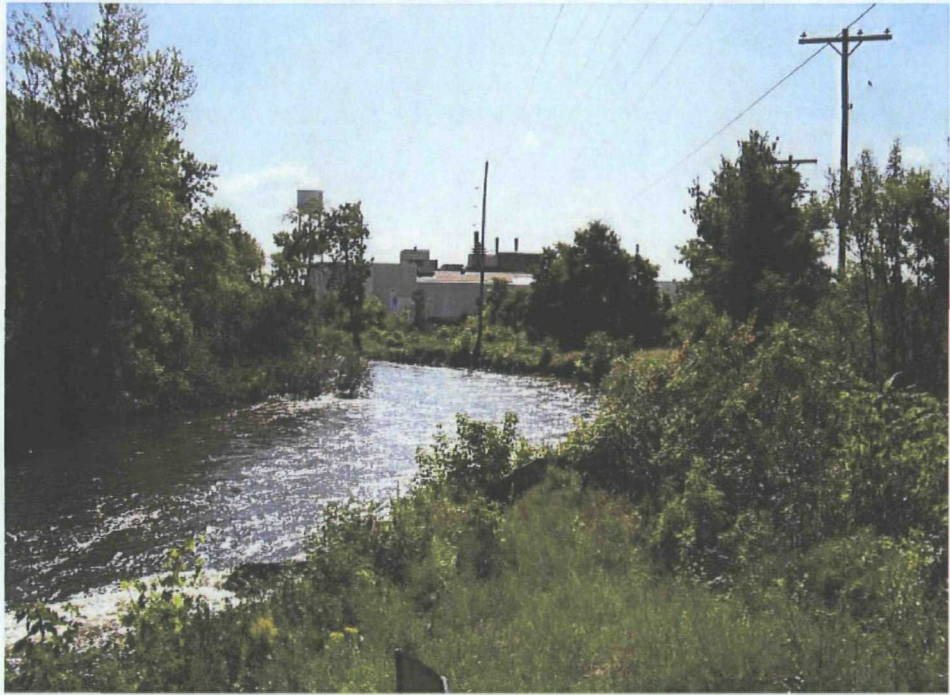
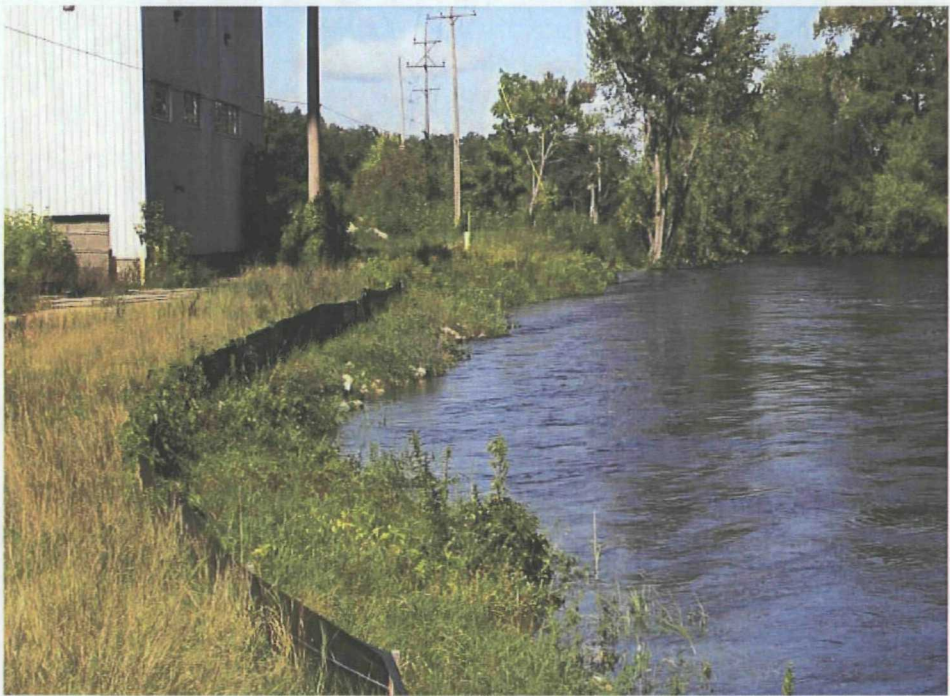
Photo No. 33	Date 9/17/08	
Description Zone A – After re-vegetation – during high water event		

Photo No. 34	Date 9/17/08	
Description Zone B – After re-vegetation during high water event		

Photographic Log

Client Name: Weyerhaeuser		Site Location: Plainwell, Michigan	Project No.: 00-05130.06
Photo No. 35	Date 9/17/08		
Description Zone C – After re-vegetation during high water event			
Photo No. 36	Date 9/17/08		
Description Zone D – After re-vegetation during high water event			

Appendix C

Release Report Documentation

Weyerhaeuser Inc.
Plainwell Mill Banks Emergency Action

Date	Description of work in progress	Field problems	Subcontractor on site	Regulatory agency on site
10/18/2007	Integrity Tree Service mobilized a hydraulic tree mower to site and began mowing trees less than 3" in diameter. Integrity Tree Service left site and returned with a tree skidder to remove trees mowed.	None	Integrity Tree Service- 1 Operator	None
10/19/2007	Integrity Tree Service mobilized a hydraulic tree cutter/buncher to site and began cutting trees over 3" in diameter. Integrity Tree Service mobilized tree chipper to the site and began chipping felled trees. Integrity Tree Service removed all trees and chipped all trees not needing the assistance of the excavator on the river bank. Integrity Tree Service chipped on semi load of trees and removed from the site. Staged remaining trees for chipping with trees removed from the river bank.	None	Integrity Tree Service- 1 Operator	None
10/22/2007	Integrity Tree Service demobilized hydraulic mower from site. Integrity Tree Service completed cutting and chipping trees on the site. Integrity Tree Service demobilized cutter/buncher and chipper from site.	None	Integrity Tree Service- Three Operators	None
10/23/2007	Earl began working on the soil storage area, preparing the area for liner, removing large concrete, rocks and generally shaping the area.	None	None	None
10/24/2007	Earl continued working on the soil storage area, preparing the area for liner, removing large concrete, rocks and generally shaping the area.	None	None	None
10/25/2007	Earl continued working on the soil storage area, preparing the area for liner, removing large concrete, rocks and generally shaping the area.	None	None	None
10/29/2007	Earl continued working on the soil storage area, preparing the area for liner, removing large concrete, rocks and generally shaping the area.	None	None	None
10/30/2008	Earl continued working on the soil storage area, preparing the area for liner, removing large concrete, rocks and generally shaping the area. Scheduled CAT D-4 bulldozer for delivery tomorrow to finish soil stockpile area. Scheduled CAT 312 excavator for delivery tomorrow, took CAT 330 excavator off rent.	None	None	None
10/31/2007	Unloaded CAT D-4 bulldozer, began final grading the sediment staging area. Unloaded CAT 312 Excavator, when grading completed in the sediment staging area, began excavating the anchor trench for liner installation. Electrician on site checked generator for use in the trailer. Cannot use due to voltage requirements for the water treatment plant.	None	None	None
11/1/2007	Completed final grading of sediment staging area. Completed excavating anchor trench for liner installation. Unloaded CAT diesel generator. Unloaded CAT 563 smooth drum roller. Rolled and compacted bottom of sediment staging area for liner installation. Scheduled electrician for Friday to hook up generator for office trailer. Checked liner for installation methods.	None	None	None
1/2/2007	Electrician on site in the AM to hook generator to office trailer. Secured site for weekend.	None	None	None
11/5/2007	Rigged liner material to the sediment staging area. Unrolled liner along the 200' length of the sediment staging area. Called liner company, checked folding pattern of the liner. Liner too heavy for personnel at the site, scheduled laborers for Wednesday, due to predicted high winds on Tuesday.	Liner too heavy to move with manpower at the site. Will need additional manpower to pull.	Catskill- One operator	None
11/6/2007	Due to high winds, no liner work today.	Weather- 30 mph sustained winds, gusts to 50 mph. Cannot deploy liner in this wind. Wind expected to die off tonight, laborers scheduled for Wednesday.	Catskill- One operator	None
11/7/2007	Deployed liner over the sediment staging area. Placed excavated dirt/sand into anchor trench to hold liner in place.	None	Catskill- One operator. Nine Laborers from Labor Ready-Grand Rapids.	None
11/8/2007	Placing sand over sides and bottom of the sediment staging area. Covering liner with 6-12" sand. Checked and laid out bank for placement of turbidity curtain. Went to Grand Rapids, picked up 300' of 3/8" chain to provide additional anchoring for turbidity curtain.	None	Catskill- One operator	None
11/9/2007	Continued placing sand over sides and bottom of the sediment staging area. Wired 300' of 3/8" chain to bottom of turbidity curtain. Assembled 350' of turbidity curtain and placed in river.	None	Catskill- One operator	None
11/12/2007	Completed placing sand over sides and bottom of the sediment staging area. Unloaded CAT Off Road Truck. Began excavating sediment from the river bank, beginning at the west end of the site.	None	Catskill- One operator	None
11/13/2007	Continued excavating sediment from the river edge, area A. Unloaded CAT 325 Excavator. Managing excavated sediments in the staging area with CAT 325 excavator.	Sediments excavated are dryer than originally anticipated. Sediments not sliding to the bottom of the staging area. Brought on CAT 325 excavator to move sediments from the dump point to the bottom of the staging area. Used CAT 325 Long Reach in the morning, but lost too much production time to continue in this fashion.	Catskill- One operator	None
11/14/2008	Continued excavating sediment from the river edge, area A. Managing excavated sediments in the staging area with CAT 325 excavator.	None	Catskill- One operator	EPA, MDEQ

Weyerhaeuser Inc.
Plainwell Mill Banks Emergency Action

Date	Description of work in progress	Field problems	Subcontractor on site	Regulatory agency on site
11/15/2007	Continued excavating sediment from the river edge, area A. Managing excavated sediments in the staging area with CAT 325 excavator.	None	Catskill- One operator	EPA, MDEQ
11/16/2007	Continued excavating sediment from the river edge, area A. Managing excavated sediments in the staging area with CAT 325 excavator.	None	Catskill- One operator	MDEQ
11/19/2007	Continued excavating sediment from the river edge, area A. Managing excavated sediments in the staging area with CAT 325 excavator.	None	Catskill- One operator	MDEQ
11/20/2007	Collected confirmatory samples from Area A. Managing excavated sediments in the staging area with CAT 325 excavator. Demobilized for Holiday weekend.	None	Catskill- One operator	MDEQ
11/26/2007	Mobilized back to the site from Holiday weekend.	None	None	MDEQ
11/27/2008	Stockpiled rip rap material on site. Re-excavated eastern area of Area A to ensure material removed, pending analytical testing.	After excavation, banks too steep to place the rip rap required for the bank erosion protection. Took photos of the bank and spoke with Jim Hutchens regarding the problem.	Catskill- One operator	MDEQ
11/28/2007	Stockpiled rip rap material on site. Awaiting decisions from Engineers and RMT regarding the plan for the bank in Area A.	Jim Hutchens, John Rice working on the remedy for the protection of the bank in Area A. Discussed several options with Jim Hutchens, late in the day it was decided to place a clay "slope" at a 2:1 angle to allow for the placement of the rip rap layer. Ordered clay to be delivered on Thursday.	Catskill- One operator	None
11/29/2007	Began importing clay for placement in area A. Began placing clay on the bank in Area A. placing clay in a 2:1 slope.	None	Catskill- One operator	None
11/30/2007	Continued importing clay for placement in area A. Continued placing clay on the bank in Area A. placing clay in a 2:1 slope.	None	Catskill- One operator	None
12/3/2007	Began placing washed rock in the river bed and up two (2) feet from the water. Rock in lieu of geofabric. Began also placing rip rap over the washed rock layer. Completed rip rap and rock installation at the end of the day.	None	Catskill- One operator	None
12/4/2007	Re-located silt curtain upstream to encompass the next section of Area A to be excavated. Once silt curtain moved and anchored, began excavating the next section of Area A, digging west to the east.	None	None	None
12/5/2007	Continued excavating western section of area A. Managing excavated materials at the sediment staging area.	None	None	None
12/6/2007	Completed excavation of eastern end of area A. Managing excavated materials at the sediment staging area.	None	None	None
12/7/2008	Ordered clay trucks for Monday, to begin backfilling operations. Late in the day, received initial sample results, will need to re-dig eastern half of Area A. Cancelled clay trucks for Monday. Unable to manage both excavation activities and the importation of clay.	None	None	None
12/10/2007	Upon arrival at the site, received the final results from first sampling event in Area A. Samples previously reported as over 1 ppm were in error. Actual results were below 1 ppm. Received authorization to backfill first section of Area A. Called to re-schedule trucks. None available till Tuesday, AM. Spent remainder of the day performing routine maintenance on the heavy equipment.	None	None	None
12/11/2007	Received clay fill, stockpiled on-site. Began placing clay on the bank in Area A at a 2:1 slope. Placed washed rock and rip-rap at the toe of the slope up 2 feet from the water line.	None	None	None
12/12/2007	Re-excavated sample location #13. Excavated all material to gravel river bottom. Re-sampled #13. Backfilled section #13 with clay, fine stone and rip rap stone. Assisted with sample collection prior to moving to Area B. Removed upstream turbidity monitor and placed approximately 100' east of next dig area. Moved turbidity curtain to the next excavation area. Began excavating river bank in Area B.	None	None	None
12/13/2007	Continued excavating river bank in Area B. Completed excavation in Area B. Collected confirmation samples from Area B.	None	None	None
12/14/2007	Awaiting confirmation sample results. Perform miscellaneous site/equipment maintenance.	None	None	None
12/17/2007	Received confirmation results late in the day. Began Backfilling excavated portions in Area B.	None	None	None
12/18/2007	Continued backfilling excavated portions of Area B. Completed backfilling excavated portions of Area B. Moved upstream turbidity monitors farther east of next excavation area. Moved turbidity curtain to next dig location. Began excavating next section of Area B.	None	None	None
12/19/2007	Continue excavating Area B	None	None	None
12/20/2007	Collected confirmation samples for excavated section of Area B.	None	None	None
Removal activities were suspended in observance of the winter holidays from December 20th, 2007 to January 2nd, 2008.				
1/2/2008	Mobilized back to the site from Christmas/New Year Holiday. Roads from Indiana ice covered and slick, took 7.5 hours to drive 260 miles.	None	None	None

Weyerhaeuser Inc.
Plainwell Mill Banks Emergency Action

Date	Description of work in progress	Field problems	Subcontractor on site	Regulatory agency on site
1/3/2008	Started Machines-Due to cold weather, needed to jump start excavators. Allowed to warm up. Placed clay in excavated section of Area B. Placed washed rock over clay at river edge. Stockpiled received rock, clay, field stone. Collected sludge sample for analysis.	12-14" of snow on the ground. Rock trucks and clay trucks having a hard time getting around the site for material deliveries.	None	None
1/4/2008	Placed field stone over washed rock in backfilled area of Area B. Completed placing field stone. Moved turbidity curtain to next area. Made repairs to turbidity curtain. Began excavating next section of Area B. Assisted in relocating turbidity monitor (downstream). Fueled equipment. Worked on access gate to site-rollers covered with dirt, freezing at night. Dug out rollers.	None	None	None
1/5/2008	Completed excavation of sediments in area B. Collected verification samples of the excavated portion of Area B.	None	None	None
1/7/2008	Awaiting verification sample results. Stacking sediments in the storage area to make more room.	Warmer weather. Snow cover has melted and the frost has come out of the ground. Ground is saturated, with more rain expected on Tuesday. Equipment unable to move about the site.	None	None
1/8/2008	Awaiting verification sample results. Raining heavy Checked site, water level in the storage area in need of pumping to frac tank. Scheduled Pro Act to be on site Wednesday AM to begin preparations to start pumping activities and water treatment.	After ice/snow melt, and current rain event. Water level in the storage area higher. To ensure no release, have pumps on the way to begin pumping on Wednesday.	None	None
1/9/2008	Awaiting verification sample results. Pro-Act on site at 8:30 AM. Began setting up pumps and hoses to pump water from storage area to the frac tank. Pumped frac tank full, gained enough room in the storage area in case of additional rain/snow.	Pumped frac tank full, 20,000 gallons, still a lot of water remaining in storage area. Due to previous commitments, Pro Act not able to begin water treatment until next Monday. Pro Act scheduled.	None	None
1/10/2008	Received sample results, #2 and #5 require re-excavation. Excavated sample areas and re-sampled. Installed tank heaters inside frac tank to prevent freezing.	None	None	None
1/11/2008	Due to recent thaws and rain, river running fast. Made attempt to backfill the excavated area, water running too fast to allow for placement. As clay base was placed in the river, before we could compact the clay, the river washed it out. Moved excavated materials inside storage area to allow water to run to the pump when pumping commences.	River running too fast to place clay. Cannot place clay till river level/velocity slows.	None	None
1/14/2008	Pro Act on site at 8 AM, began rigging pumps and hoses to treat water. Began treating water from frac tank, through system discharge to river. Collected water samples from influent, intermediate and effluent locations at 12:30 PM. Water treatment progressing at 120-140 GPM. Collected water samples from influent, intermediate and effluent locations at 4:30 PM. Discontinued water treatment at 5 PM, rigged system to recirculate overnight to prevent freezing of system. Water treated today was 41,000 gallons.	River still very high	None	None
1/15/2008	Pro Act on site at 8 AM, began shifting pumps and hoses to continue to treat water. Freezing problems overnight. Started treating water at 10 AM. Hoses/pumps frozen. Completed treating water at 1 PM. Began blowing down the system to prevent freezing in case system needed again. Water treated today 17,000 gallons. Total volume of water treated was 58,441 per Pro Act flow meter. Bottom of tanks frozen (slurry line) thawing and trying to drain.	River still very high. Cannot place clay in the river.	None	None
1/16/2008	Checked water treatment system, all secure, no visible problems. Worked on storage area. Moving sediments to allow for more room when excavating resumes. Secured site. Demobilizing on Thursday, due to high water levels and velocity.	River still very high. Cannot place clay in the river.	None	None
Work was suspended from January 16th until January 28th due to the high water level of the Kalamazoo River				
1/28/2008	Mobilized to the site from Indiana. Finish backfill in Zone B. Prepare to excavate in Area D. Place 300 ft of new silt curtain along the banks in the east section of Area D. Placed the turbidity monitors upstream and downstream of the removal area. Began excavating east area of area D.			
1/29/2008	Continued excavating river bank in Area D. Managing excavated materials at the sediment staging area.			
1/30/2008	Continued excavating river bank in Area D. Managing excavated materials at the sediment staging area.			
1/31/2008	Collected confirmation samples in Area D. Demobilized for the weekend.			
2/4/2008	Mobilized back to the site from Indiana. Awaiting verification sample results. Collected samples of the clay fill source and area A placed fill.	None	None	None

Weyerhaeuser Inc.
Plainwell Mill Banks Emergency Action

Date	Description of work in progress	Field problems	Subcontractor on site	Regulatory agency on site
2/5/2008	Received verification sample results. East area of area D requires re-excavation. Began excavation of area D. Noticed slight oil sheen on river water surface. Placed absorbent booms in the river to collect sheen. Terminated excavation activities. Located source of sheen in excavated area. Placed clay "plug" in area.	Noticed oil sheen in water. Placed booms out and placed clay plug in the portion of the work that seemed to be producing the sheen. After placing the clay plug, no visible oil sheen present.	None	None
2/6/2008	Placed clay cap over the excavated portion of Area D. Placed rip rap over the clay plug to prevent erosion.	None	None	None
2/7/2008	Separated excavated material in the staging area, materials high in PCB's. Ordered two (2) roll off boxes for delivery on 2/8	None	None	None
2/8/2008	Received two (2) roll off boxes. Placed liner in to roll off box, then placed the material excavated on the re-dig into the roll off box to segregate higher level soils.	None	None	None
2/11/2008	Road conditions treacherous. Waited till 9 am to travel to site. Roads still icy. Started machines, allowed warm up due to very low temps. Awaiting sample results. Checked site, all fine.	None	None	None
2/12/2008	Warmed equipment. Received sample results (pre-ex). All low to #3 sample. (150' from east end of previous dig). Excavated sediments to 180' from high sample area. To complete dig tomorrow.	None	None	None
2/13/2008	Warmed equipment. Checked turbidity curtain prior to excavating. Found damage to curtain, appears ripped/sliced. Due to damage to curtain, unable to dig. Phoned JH, informed him of damage. Plan to collect confirmation samples from the excavated portion of the area. Collected confirmation samples, pre-ex samples, and additional sample. Ordered additional curtain for delivery. Scheduled delivery on Tuesday, 2/19.	Found damage to turbidity curtain. Informed JH, ordered additional curtain. Could not find the cause for the damage. Possibly ice or debris.	None	MDEQ/CDM
Work was suspended from February 13th until February 28th due to the high water level of the Kalamazoo River				
2/28/2008	RMT met with USEPA, MDEQ and CDM to determine the applicability of various sample collection techniques for sediment confirmation sampling.	None	None	EPA, MDEQ, CDM
3/3/2008	Resampled west Area D. Sheen found on river in the sampling area. Deployed oil booms to contain the sheen.	Noticed sheen on the river within the silt current in the removal area. Deployed oil booms to contain the sheen. The source was a stormwater outfall.	None	CDM
3/4/2008	Backfilled west end of Area D. Moved silt curtain and manhole risers to the next removal area.	None	None	None
3/5/2008	Began excavating in the eastern end of Area C. Managed excavated material at the sediment staging area.	None	None	None
3/6/2008	Finish excavating in the eastern end of Area C. Collected confirmation samples in the afternoon.	None	None	CDM
3/7/2008	Awaiting sampling results. Managed excavation spoils in the containment pad. Performed maintenance on equipment. Demobilized from the site for the weekend.	None	None	None
3/10/2008	Awaiting sample results. Removed damaged silt curtain. Removed manhole risers. Loaded accumulated brush/debris from banks/nearshore that were snagging turbidity curtain, staged in lot. Replaced silt curtain and manhole risers.	None	None	None
3/11/2008	Received sample results @ 6AM. Grand Rapids personnel on site @ 10 AM. Re-excavated 2 areas (48, 51). Re-sampled excavated areas. Backfilled excavated areas. Monitored turbidity, all good	None	None	EPA
3/12/2008	Repaired grease line on long stick excavator-pulled off by tree branch. Stacked excavated material from yesterday in the sediment storage area. Worked on removing fines from backfill rock. Moved silt curtain to last location. Two sections of curtain damaged, removed and replaced. Moved concrete risers to anticipated locations	None	None	EPA, MDEQ
3/13/2008	Excavated material from the next 150 ft of banks. Grand Rapids personnel and CDM on site at 1230, collect samples in the afternoon.	None	None	CDM
3/14/2008	Re-attached turbidity curtain at west end. Excavate 6 test pit locations in remaining 180 feet of excavation area, samples collected from each test pit. Measured for locations of samples. Continued clearing banks for silt fence placement. Attempting to locate field stone for river backfill. Awaiting word from Weyerhaeuser/EPA for approval of last 180 feet of bank.	Smith and Sons Gravel pit is inaccessible due to the recent thaws. Allowing to dry over the weekend to move river rock hopefully Monday. Trevor Smith attempting to locate an additional source of backfill material. Stressed to Trevor that the backfill needs to be CLEAN.	None	None
3/15/2008	Continued clearing and grubbing silt fence alignment. Awaiting confirmation sample results.	None	None	None
3/17/2008	Completed clearing silt fence alignment. Scheduled silt fence installation and Pro Act (water treatment sub) for Wednesday, 3/19. Clean site, loaded damaged turbidity curtain into 30 yard roll-off box. Awaiting confirmation sample results.	None	None	None

Weyerhaeuser Inc.
Plainwell Mill Banks Emergency Action

Date	Description of work in progress	Field problems	Subcontractor on site	Regulatory agency on site
3/18/2008	Received confirmation sample results. Three (3) samples high, #'s 55, 56, 57. #57 borderline hazardous, need to segregate. Removed turbidity curtain from roll-off box, moved into position, lined and began re-dig at location #57. Completed re-dig of location #57, secured tarp in box, began re-dig at #'s 55, 56. Completed re-dig of #'s 55, 56, materials placed into sediment staging area. Re-sampled areas #'s 55, 56, 57.	None	None	None
3/19/2008	Placed geo-fab on bank of area #55, #56, #57. Backfill same area with gravel and field stone. Started water treatment system. Re-circulated water, sampled for analysis. Started silt fence installation on east end of property, heading west. RMT/agency on-site, collected samples from last 180 ft of bank.	None	Pro-Act- water treatment Frontier Solutions- Silt fence installation	EPA, MDEQ
3/20/2008	Continued to treat water. Continued silt fence installation.	None	Frontier Solutions- Silt fence installation	EPA, MDEQ
3/21/2008	Continued to treat water. Finished silt fence installation.	None	Frontier Solutions- Silt fence installation	None
3/24/2008	Suspend work until 4/2/08			
4/2/2008	Continue to treat water. Continue to grade area for truck access. Grade main road. Remove silt curtain and concrete structures from river	None	None	None
4/3/2008	Discharge approx. 20,000 gal treated water. Started treating approx. 20,000 water from pit. Covered last area along river with geo-fab, washed rock and field stone	None	None	None
4/4/2008	Moved material in pit to dry. Continue treating approx. 20,000 water from pit.	None	None	None
4/5/2008	Continued to move material in pit to dry. Continue treating approx. 20,000 water from pit.	None	None	None
4/7/2008	Continued to move material in pit to dry. Continue treating approx. 20,000 water from pit.	None	None	None
4/8/2008	Collected waste characterization samples. Continued to move material in the pit to dry. Received load of calciment ash, mixed into material in pit. Performed air monitoring near the south fenceline during mixing.	None	None	None
4/9/2008	Continued to move material in pit to dry. Received two loads of calciment ash, mixed into material in pit. Performed air monitoring near the south fenceline during mixing.	None	None	None
4/10/2008	Suspend work until 4/16/08			
4/16/2008	Continued to move material in pit to dry. Received two loads of calciment ash, mixed into material in pit. Performed air monitoring near the south fenceline during mixing.	None	None	None
Work suspended pending disposal approval				
5/28/2008	Load and Haul Paper Residual Material from containment pad to Waste Management Landfill	None	Cordes Trucking	None
11/7/2008				

Appendix D

Calciment Bottom Ash

Material Safety Data Sheet



MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

Date: 01/01/08
Code: Oregon, OH

Product Name	Distributor	Telephone
Calciment® - Bed Ash	Mintek Resources, Inc. PO Box 340187 Beavercreek, OH 45434	937-431-0218 Office 937-431-1305 Fax 800-424-9300 CHEMTREC

SECTION 2. TYPICAL COMPOSITION

Component	Formula	% Wt.	CAS No.	PEL
Calcium Oxide	CaO	50 - 55	1305-78-8	5mg/m ³
Amorphous Silica	SiO	2 - 3	7631-86-9	80mg/m ³
Aluminum Oxide	Al ₂ O ₃	0.1 - 0.2	1344-28-1	15mg/m ³
Ferric Oxide	Fe ₂ O ₃	0.5 - 1	1309-37-1	10mg/m ³
Magnesium Oxide	MgO	2 - 4	1309-48-4	15mg/m ³
Calcium Sulfate	SO ₃	35 - 38	7778-18-9	15mg/m ³

SECTION 3. HAZARD IDENTIFICATION

Potential Health Effects:

Inhalation (acute): Breathing dust may cause nose, throat or lung irritation and choking. The described effect depends on the degree of exposure and preexisting respiratory conditions.

Inhalation (chronic): Prolonged or repeated exposure may cause inflammation of the respiratory passages. May cause chemical bronchitis with coughing and difficulty breathing. Risk of injury depends on duration and level of exposure. Long term exposures which result in bronchitis may result in additional health effects.

Eye Contact (acute/chronic): Initially may cause eye irritation with discomfort, tearing or blurring of vision. Continued overexposure could potentially cause burns and damage to cornea.

Skin Contact (acute/chronic): Initially may cause dry skin, redness, discomfort or irritation. Continued overexposure could potentially cause burns.

Ingestion (acute/chronic): Causes gastrointestinal tract irritation. May cause nausea vomiting and diarrhea. May cause central nervous system depression.

SECTION 4. FIRST AID MEASURES

Skin: Wash with soap and water. Seek medical attention if irritation develops or persists.

Eyes: Flush eyes with clean, low-pressure water for at least 15 minutes, occasionally lifting eyelids. Seek medical attention for abrasions.

Inhalation: Remove personnel from contaminated area to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention for discomfort.

Ingestion: If ingested, do not induce vomiting, but drink plenty of water. Seek medical attention for discomfort.

SECTION 5. FIRE FIGHTING MEASURES

Flashpoint and Method: None.

Flammable Limits: Not combustible.

Autoignition Temperature: None.

General Hazard: Avoid breathing dust. Although this product is not considered flammable it has the potential to generate heat when exposed to water.

Firefighting Instructions: Treat adjacent material.

Firefighting Equipment: This product is not a fire hazard. Self contained breathing apparatus is recommended if this material is exposed to heat since there is a possibility that toxic fumes may evolve.

Hazardous Combustion Products: None.

SECTION 6. ACCIDENT RELEASE MEASURES

General: Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in section 8. Collect and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

SECTION 7. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

Avoid contact with eyes, skin and clothing. Do not ingest or inhale.

Storage: Store in a well-ventilated area away from incompatible substances.

Storage Temperature: Unlimited.

Storage Pressure: Unlimited.

Empty Containers: Dispose of containers in an approved landfill or incinerator.

SECTION 8. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Varying from light to dark gray/white mix of fine granules and powder
Boiling Point:	Not determined
Freezing Point:	None, solid
Viscosity:	None, solid
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Specific Gravity:	Not determined
Solubility in Water:	Not determined
Evaporation Rate:	Not measurable
pH (in water):	Not determined

SECTION 9. STABILITY AND REACTIVITY

General: Product is stable but should be kept dry. It may react exothermically to produce heat when in contact with water.

Incompatible Materials and Conditions to Avoid: May generate heat when exposed to water. Will neutralize mineral acids producing calcium and magnesium based salts. Will absorb carbon dioxide in air. Avoid conditions that generate dusts.

Hazardous Polymerization: Will not occur.

SECTION 10. TOXICOLOGICAL INFORMATION

LD50/LC50: No information available.

Carcinogenicity: Not listed by ACGIH, IARC, NOISH, NTP or OSHA

Epidemiology: No information available.

Teratogenicity: No information available

SECTION 11. ECOLOGICAL INFORMATION

Not available.

SECTION 12. DISPOSAL CONSIDERATIONS

Dispose in landfill in accordance with all applicable regulations. Any disposal practice must be in compliance with local, provincial, state and federal laws and regulations. Contact local environmental agency for specific rules.

SECTION 13. TRANSPORTATION INFORMATION

Since the mixture varies by percentages of the different components to the point of being present or absent, it is difficult to evaluate bed ash based on DOT classifications.

SECTION 14. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA)

Calcium Oxide (CAS# 1305-78-8) is listed on the TSCA inventory

None of the chemicals in this material are listed under TSCA Section 12b

None of the chemicals in this product have a SNUR under TSCA

None of the chemicals are on the Health and Safety reporting list

None of the chemicals in this product are under a Chemical Test Rule

SARA

Section 302: None of the chemicals in this material have a RQ (reportable quantity)

Section 302: None of the chemicals in this material have a TPQ (threshold planning quantity)

SARA Codes: Acute, Reactive

Section 313: No chemicals are reportable under Section 313

Clean Air Act

This material does not contain any hazardous air pollutants. No Class 1 or Class 2 Ozone depleters present.

Clean Water Act

CWA Hazardous Substances; none

CWA Priority Pollutants: None

CWA Toxic Pollutants: None

OSHA Hazard Communication Rule, 29 CFR 1910.1200:

One or more of the constituents identified are considered by OSHA to be hazardous.

STATE Right-to-Know

Calcium Oxide (CAS# 1305-78-8 is listed on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts

Calcium Sulfate (CAS #7778-18-9) is listed on the following state Right-to-Know lists: Pennsylvania

CERCLA/SUPERFUND, 40 CFR 117.302:

Not listed.

WHMIS Information:

This product has a WHMIS classification of E, C

SECTION 15. MISCELLANEOUS OTHER INFORMATION**Abbreviations:**

CAS No.	Chemical Abstract Service number
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
TWA	Time Weighted Average (8 hour)
CL	Ceiling Limit
Mg/m ³	milligrams per cubic meter
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
pH	negative log of hydrogen ion greater than
DOT	U.S. Department of Transportation
TDG	Transportation of Dangerous Goods
CFR	Code of Federal Regulations
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
SARA	Superfund Amendments and Reauthorization Act

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CALCIMENT® Bed Ash

TCLP

Oregon, OH

ELEMENT	FORMULA	RESULT mg/L	RCRA LIMIT, mg/L
ARSENIC	As	< 0.4	5.0
BARIUM	Ba	0.4	100.0
CADMIUM	Cd	< 0.1	1.0
CHROMIUM	Cr	< 0.1	5.0
LEAD	Pb	< 0.1	5.0
MERCURY	Hg	< 0.05	0.2
NICKEL	Ni	1.1	----
SELENIUM	Se	0.2	1.0
SILVER	Ag	< 0.1	5.0
VANADIUM	V	0.3	----



Typical Chemical Analysis

Calciment® Bed Ash

Oregon, OH

<u>Element</u>	<u>Formula</u>	<u>Percent</u>
Total Calcium Oxide	CaO	64.17
Magnesium Oxide	MgO	3.53
Silicon Dioxide	SiO ₂	7.38
Aluminum Oxide	Al ₂ O ₃	0.43
Iron Oxide	Fe ₂ O ₃	0.66
Sulfur Trioxide	SO ₃	23.29
Potassium Oxide	K ₂ O ₃	0.18
Available Calcium Oxide	25.33	
Loss on Ignition (LOI)	1.20	
pH @ 25°C	12.43	

Appendix E

EQ Manifests

79,160

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Please print or type. (Form designed for use on site (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40C FRP ART 781	2. Page 1 of 1	3. Emergency Response Phone (800) 839-3975	4. Manifest Tracking Number 004702559 JJK		
5. Generator's Name and Mailing Address WEYERHAEUSER 700 EAST ORCHARD ROAD, STE 200 ATTN: JENNIFER HALE GREENWOOD VILLAGE, CO 80111			Generator's Site Address (if different than mailing address) 200 ALLEGHAN STREET PLAINWELL, MI 49080				
Generator's Phone: (303) 667-1560							
6. Transporter 1 Company Name EQ INDUSTRIAL SERVICES			U.S. EPA ID Number MI0 000 203 871				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC SITE 2 LANDFILL 49350 N I-44 SERVICE DRIVE BELLEVILLE, MI 48111			U.S. EPA ID Number MI0 048 090 813				
Facility's Phone: (800) 592-5480							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	UN3432, RG, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, POH	001	CM	12 yds	K	PCB1
	2						
	3						
	4						
14. Special Handling Instructions and Additional Information 1. J084148V01 / PAPER RESIDUALS AND SOIL / ERG #171 Storage 11-11-08 #19							
15. GENERATOR/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (#1 I am a large quantity generator) or (#2 I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name: Nathan Weber Signature: <i>[Signature]</i> Month: 11 Day: 11 Year: 08							
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Brian Kopsolias Signature: <i>[Signature]</i> Month: 11 Day: 11 Year: 08 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____						
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Actual weight: 14,813 K OK per James Hutchens @ RMT INC. AS Agent For Generator 11-12-08 RW						
	18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____						
	Facility's Phone: _____						
	18c. Signature of Alternate Facility (or Generator) _____ Month: _____ Day: _____ Year: _____						
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
	1. H132	2. _____	3. _____	4. _____			
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Larry Lebing Signature: <i>[Signature]</i> Month: 11 Day: 11 Year: 08						

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

59,620
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Form Approved OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40C FRP ART 781	2. Page 1 of 1	3. Emergency Response Phone (800) 838-3975	4. Manifest Tracking Number 004702560 JJK		
5. Generator's Name and Mailing Address WEYERHAEUSER 100 EAST ORCHARD ROAD, STE 200 ATTN: JENNIFER HALE GREENWOOD VILLAGE, CO 80111 (303) 687-1580		Generator's Site Address (if different than mailing address) 200 ALLEGHAN STREET PLAINWELL, MI 48080					
6. Transporter 1 Company Name EQ INDUSTRIAL SERVICES		U.S. EPA ID Number MI0 000 283 871					
7. Transporter 2 Company Name		U.S. EPA ID Number					
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE 2 LANDFILL 49350 N LAM SERVICE DRIVE BELLEVILLE, MI 48111 (800) 592-5489		U.S. EPA ID Number MI0 048 080 833					
Facility's Phone							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	UN3432, RD, WASTE POLYCHLORINATED BIPHENYLS, SOLID., 9, PGII	001	CM	12 yds 27,100	kg	PCB1
	2						
	3						
	4						
14. Special Handling Instructions Storage Start 11-11-08 #200							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Nathan Weber Signature Nathan Weber Month 11 Day 11 Year 08							
TRANSPORTER INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Brian Kapsolias Signature Brian Kapsolias Month 11 Day 11 Year 08 Transporter 2 Printed/Typed Name Signature Month Day Year						
DESIGNATED FACILITY	18. Discrepancy Actual weight: 13,955K OK per James Hutchens @ RMT AS Agent for Generator 11-11-08						
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection changed section 11-12 to 27,100kg OK per Jim Hutchens w/ RMT as agent for Generator DC 11-11-08						
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:						
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H132		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a Printed/Typed Name Larry LeMay Signature Larry LeMay Month 11 Day 11 Year 08							

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40C FRP ART 781	2. Page 1 of 1	3. Emergency Response Phone (800) 838-3975	4. Manifest Tracking Number 004702950 JJK	
5. Generator's Name and Mailing Address WEYERHAEUSER 700 EAST ORCHARD ROAD, STE 200 ATTN: JENNIFER HALE GREENWOOD VILLAGE, CO 80111 Generator's Phone: (303) 987-1680			Generator's Site Address (if different than mailing address) 200 ALLEGHAN STREET PLAINWELL, MI 48080			
6. Transporter 1 Company Name EQ INDUSTRIAL SERVICES			U.S. EPA ID Number MI0 000 263 871			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC SITE 2 LANDFILL 40250 N I-84 SERVICE DRIVE BELLEVILLE, MI 48111 Facility's Phone: (800) 592-5489			U.S. EPA ID Number MI0 042 080 833			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
	X	UN3432, RG, WASTE POLYCHLORINATED BIPHENYLS, SOLID., 6, PGII	001	CM	34270 40700	K PCB1
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information J084149WDI/PAPER RESIDUALS AND SOIL / ERG #171 STORAGE START DATE 11-24-08 UNIQUE CONTAINER ID BOX 2240						
15. GENERATOR/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name <u>Alan Breslin</u> Signature <u>Alan Breslin</u> Month <u>11</u> Day <u>24</u> Year <u>08</u>						
INTL	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:					
	17. Transporter Acknowledgment of Receipt of Materials					
TRANSPORTER	Transporter 1 Printed/Typed Name <u>Samuel Cook</u> Signature <u>Samuel Cook</u> Month <u>11</u> Day <u>24</u> Year <u>08</u>					
	Transporter 2 Printed/Typed Name Signature Month Day Year					
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
	Actual Weight: 15900K OK per Jim Hitchens @ RMT INC. AS Agent For Generator 11-24-08 RW					
	18b. Alternate Facility (or Generator) U.S. EPA ID Number					
	Facility's Phone:					
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems):						
1. H132		2.		3.		
20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in item 18c. Printed/Typed Name <u>Samuel Cook</u> Signature <u>[Signature]</u> Month <u>11</u> Day <u>24</u> Year <u>08</u>						

EPA Form 8700-22 (Rev. 3-95) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Please print or type. (Form designed for use on a 12-pitch typewriter.)

Form Approved, OMB No. 2060-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 40C FRP ART 761	2. Page 1 of 1	3. Emergency Response Phone (800) 838-3875	4. Manifest Tracking Number 004702951 JJK			
5. Generator's Name and Mailing Address WETTERHAEUSER 700 EAST ORCHARD ROAD, STE 200 ATTN: JENNIFER HALE GREENWOOD VILLAGE, CO 80111			Generator's Site Address (if different than mailing address) 200 ALLEGHAN STREET PLAINWELL, MI 48080					
Generator's Phone: (303) 987-1589								
6. Transporter 1 Company Name EQ INDUSTRIAL SERVICES			U.S. EPA ID Number MID 000 263 871					
7. Transporter 2 Company Name			U.S. EPA ID Number					
8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC SITE 2 LANDFILL 42350 N I-44 SERVICE DRIVE BELLEVILLE, MI 48111			U.S. EPA ID Number MID 042 080 833					
Facility's Phone: (800) 592-5489								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No.	Type				
	X	1. UN3432, RG, WASTE POLYCHLORINATED BIPHENYLS, SOLID, 9, PG II	001	CM	36000kg "40 Gen"	K	PCB1	
		2.						
		3.						
		4.						
14. Special Handling Instructions and Additional Information J084148WDI / PAPER RESIDUALS AND SOIL / ERG #171 STORAGE START DATE 11-24-08 UNIQUE CONTAINER ID OK								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Officer's Printed/Typed Name Alisa Braglin		Signature <i>Alisa Braglin</i>		Month 11		Day 24		
				Year 08				
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:					
	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name Samuel Cook		Signature <i>Samuel Cook</i>		Month 11		Day 24	
	Transporter 2 Printed/Typed Name		Signature		Year 08			
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Actual weight: 9673K OK per Jim Hutchens @ RMT Inc. AS Agent for Generator 11-24-08 RW							
	18b. Alternate Facility (or Generator) U.S. EPA ID Number							
	Facility's Phone:							
	18c. Signature of Alternate Facility (or Generator) Month 11 Day 24 Year 08							
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
	1. H132	2.	3.	4.				
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed Name <i>Samuel Cook</i> Signature <i>Samuel Cook</i> Month 11 Day 24 Year 08							

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Appendix F

Laboratory Analysis

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-2796
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-001	PM-SD-002	PM-SD-003	PM-SD-004	PM-SD-005	PM-SD- FD001
Sample Date		11/19/07 13:28	11/19/07 14:25	11/19/07 13:40	11/19/07 14:35	11/19/07 14:40	
Lab ID		003	004	005	006	007	008
Analyte	CAS	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>
Aroclor-1016	12674-11-2	<120	110	170 P	150 P	110 P	120
Aroclor-1221	11104-28-2	<120	<9.7	<120	<110	<110	<90
Aroclor-1232	11114-16-5	<120	<9.7	<120	<110	<110	<90
Aroclor-1242	53469-21-9	<120	<9.7	<120	<110	<110	<90
Aroclor-1248	12672-29-6	500 P	100 P	560	320	310 P	300
Aroclor-1254	11097-69-1	330	60	740	160	190	140
Aroclor-1260	11096-82-5	<120	20 P	<120	<110	<110	<90
Surrogate							
Tetrachloroxylene		49% D	75%	59% D	63% D	62% D	54% D
Decachlorobiphenyl		40% D	64%	43% D	45% D	40% D	39% D
Date Extracted		11/20/07	11/20/07	11/20/07	11/20/07	11/20/07	11/20/07
Date Analyzed		11/20/07	11/20/07	11/20/07	11/20/07	11/20/07	11/20/07

D Surrogate taken from a diluted run

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 11/26/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-2796
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID Sample Date		Method	Lab	PM-SD-002	PM-SD-002
		Blank	Control Spike		
				11/19/07 14:25	11/19/07 14:25
					004 Matrix Spike
Lab ID		BLANK	LCS	004 Matrix Spike	Duplicate
Analyte	CAS	ug/Kg	% rec	% rec	% rec
Aroclor-1016	12674-11-2	<6.7	82%	152%	122%
Aroclor-1221	11104-28-2	<6.7	NA	NA	NA
Aroclor-1232	11114-16-5	<6.7	NA	NA	NA
Aroclor-1242	53469-21-9	<6.7	NA	NA	NA
Aroclor-1248	12672-29-6	<6.7	NA	NA	NA
Aroclor-1254	11097-69-1	<6.7	NA	NA	NA
Aroclor-1260	11096-82-5	<6.7	80%	78%	70%
Surrogate					
Tetrachloroxylene		79%	83%	79%	70%
Decachlorobiphenyl		78%	82%	71%	69%
Date Extracted		11/20/07	11/20/07	11/20/07	11/20/07
Date Analyzed		11/26/07	11/26/07	11/20/07	11/20/07

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 11/26/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-2796
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-006	PM-SD-007	Method	Lab
Sample Date		11/20/07	11/20/07	Blank	Control
		14:25	14:00		Spike
Lab ID		011	012	BLANK	LCS
Analyte	CAS	ug/Kg	ug/Kg	ug/Kg	% rec
Aroclor-1016	12674-11-2	<140	190	<6.7	85%
Aroclor-1221	11104-28-2	<140	<130	<6.7	NA
Aroclor-1232	11114-16-5	<140	<130	<6.7	NA
Aroclor-1242	53469-21-9	<140	<130	<6.7	NA
Aroclor-1248	12672-29-6	330	260	<6.7	NA
Aroclor-1254	11097-69-1	220	170 P	<6.7	NA
Aroclor-1260	11096-82-5	<140	<130	<6.7	82%
Surrogate					
Tetrachloroxylene		51% D	53% D	88%	92%
Decachlorobiphenyl		38% D	39% D	78%	80%
Date Extracted		11/26/07	11/26/07	11/26/07	11/26/07
Date Analyzed		11/26/07	11/26/07	11/26/07	11/26/07

D Surrogate taken from a diluted run

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 11/27/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-2796
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID	PM-SD-	Method	Lab
Sample Date	F13R	Blank	Control
	11/27/07		Spike
	9:05		

Lab ID		013	BLANK	LCS
Analyte	CAS	ug/Kg	ug/Kg	% rec
Aroclor-1016	12674-11-2	<7.8	<6.7	96%
Aroclor-1221	11104-28-2	<7.8	<6.7	NA
Aroclor-1232	11114-16-5	<7.8	<6.7	NA
Aroclor-1242	53469-21-9	<7.8	<6.7	NA
Aroclor-1248	12672-29-6	<7.8	<6.7	NA
Aroclor-1254	11097-69-1	<7.8	<6.7	NA
Aroclor-1260	11096-82-5	<7.8	<6.7	89%
Surrogate				
Tetrachloroxylene		65%	88%	76%
Decachlorobiphenyl		52%	81%	78%
Date Extracted		11/29/07	11/29/07	11/29/07
Date Analyzed		12/03/07	12/03/07	12/03/07

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/03/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-2896
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-08	PM-SD-09	PM-SD-10	PM-SD-11	Duplicate
Sample Date		12/05/07 16:15	12/05/07 16:10	12/05/07 16:05	12/05/07 16:00	12/05/07 0:00
Lab ID		003	004	005	006	007
Analyte	CAS	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>
Aroclor-1016	12674-11-2	74 P	41	<90	<110	<97
Aroclor-1221	11104-28-2	<11	<16	<90	<110	<97
Aroclor-1232	11114-16-5	<11	<16	<90	<110	<97
Aroclor-1242	53469-21-9	<11	<16	<90	<110	<97
Aroclor-1248	12672-29-6	210 PD	140	260 D	190 D	340 D
Aroclor-1254	11097-69-1	120	71	140 D	110 D	190 PD
Aroclor-1260	11096-82-5	50 P	<16	<90	<110	<97
Surrogate						
Tetrachloroxylene		78%	40%	59%	53%	68%
Decachlorobiphenyl		68%	27%	48%	45%	64%
Date Extracted		12/06/07	12/06/07	12/06/07	12/06/07	12/06/07
Date Analyzed		12/07/07	12/07/07	12/07/07	12/07/07	12/07/07

D Surrogate taken from a diluted run

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/07/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-2896
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID Sample Date		Method Blank	Lab Control Spike	PM-SD-08 12/05/07 16:15 003 Matrix Spike	PM-SD-08 12/05/07 16:15 003 Matrix Spike Duplicate
Lab ID		BLANK	LCS		
Analyte	CAS	ug/Kg	% rec	% rec	% rec
Aroclor-1016	12674-11-2	<6.7	84%	102%	78%
Aroclor-1221	11104-28-2	<6.7	NA	NA	NA
Aroclor-1232	11114-16-5	<6.7	NA	NA	NA
Aroclor-1242	53469-21-9	<6.7	NA	NA	NA
Aroclor-1248	12672-29-6	<6.7	NA	NA	NA
Aroclor-1254	11097-69-1	<6.7	NA	NA	NA
Aroclor-1260	11096-82-5	<6.7	93%	118%	104%
Surrogate					
Tetrachloroxylene		71%	73%	78%	83%
Decachlorobiphenyl		81%	78%	70%	73%
Date Extracted		12/06/07	12/06/07	12/06/07	12/06/07
Date Analyzed		12/07/07	12/07/07	12/07/07	12/07/07

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/07/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-2896
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-09	PM-SD-12	PM-SD-13	Method	Lab Control
Sample Date		12/05/07	12/06/07	12/06/07	Blank	Spike
		16:10	13:00	13:15		
		004 re-				
Lab ID		extracted	010	011	BLANK	LCS
Analyte	CAS	ug/Kg	ug/Kg	ug/Kg	ug/Kg	% rec
Aroclor-1016	12674-11-2	<14	<16	<110	<6.7	91%
Aroclor-1221	11104-28-2	<14	<16	<110	<6.7	NA
Aroclor-1232	11114-16-5	<14	<16	<110	<6.7	NA
Aroclor-1242	53469-21-9	<14	<16	<110	<6.7	NA
Aroclor-1248	12672-29-6	150 P	110 P	910 PD	<6.7	NA
Aroclor-1254	11097-69-1	170 P	130 P	730 D	<6.7	NA
Aroclor-1260	11096-82-5	<14	<16	<110	<6.7	82%
Surrogate						
Tetrachloroxylene		69%	70%	86%	80%	80%
Decachlorobiphenyl		66%	71%	71%	80%	76%
Date Extracted		12/07/07	12/07/07	12/07/07	12/07/07	12/07/07
Date Analyzed		12/10/07	12/10/07	12/10/07	12/10/07	12/10/07

D Surrogate taken from a diluted run

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/11/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-3017
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-14	PM-SD-15	PM-SD-16	PM-SD-17	PM-SD-18	PM-SD-19
Sample Date		12/13/07 10:55	12/13/07 11:09	12/13/07 11:20	12/13/07 11:28	12/13/07 11:39	12/13/2007 11:44
Lab ID		001	002	003	004	005	006
Analyte	CAS	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>
Aroclor-1016	12674-11-2	<8.7	<8.1	<9.2	<8.3	<9.8	<9.4
Aroclor-1221	11104-28-2	<8.7	<8.1	<9.2	<8.3	<9.8	<9.4
Aroclor-1232	11114-16-5	<8.7	<8.1	<9.2	<8.3	<9.8	<9.4
Aroclor-1242	53469-21-9	<8.7	<8.1	<9.2	<8.3	<9.8	<9.4
Aroclor-1248	12672-29-6	<8.7	<8.1	<9.2	<8.3	24	<9.4
Aroclor-1254	11097-69-1	<8.7	33	<9.2	<8.3	14	<9.4
Aroclor-1260	11096-82-5	<8.7	<8.1	<9.2	<8.3	<9.8	<9.4
Surrogate							
Tetrachloroxylene		83%	73%	82%	81%	75%	72%
Decachlorobiphenyl		84%	78%	81%	84%	77%	84%
Date Extracted		12/14/07	12/14/07	12/14/07	12/14/07	12/14/07	12/14/07
Date Analyzed		12/16/07	12/17/07	12/16/07	12/16/07	12/18/07	12/16/07

D Surrogate taken from a diluted run

Samples PM-SD-15 and PM-SD-20 were subjected to further cleanup to remove interference.

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/27/07

Weyerhaeuser Analytical & Testing Services
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 Federal Way, WA 98003

Service Request 07-3017
 WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-20	DUP 003	PM-SD-13R	Method Blank	Method Blank Cleanup
Sample Date		12/13/07 12:10		12/12/07 8:55		
Lab ID		007	008	009	BLANK	BLANK
Analyte	CAS	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>
Aroclor-1016	12674-11-2	<8.5	<9.9	<9.4	<6.7	<6.7
Aroclor-1221	11104-28-2	<8.5	<9.9	<9.4	<6.7	<6.7
Aroclor-1232	11114-16-5	<8.5	<9.9	<9.4	<6.7	<6.7
Aroclor-1242	53469-21-9	<8.5	<9.9	<9.4	<6.7	<6.7
Aroclor-1248	12672-29-6	<8.5	<9.9	<9.4	<6.7	<6.7
Aroclor-1254	11097-69-1	<8.5	<9.9	<9.4	<6.7	<6.7
Aroclor-1260	11096-82-5	<8.5	<9.9	<9.4	<6.7	<6.7
Surrogate						
Tetrachloroethylene		77%	82%	78%	93%	83%
Decachlorobiphenyl		83%	86%	84%	87%	89%
Date Extracted		12/14/07	12/14/07	12/14/07	12/14/07	12/14/07
Date Analyzed		12/16/07	12/16/07	12/17/07	12/16/07	12/17/07

D Surrogate taken from a diluted run

Approved: Randy Eatherton
 Telephone: (253)924-6421

Date: 12/27/07

Weyerhaeuser Analytical & Testing Services
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 Federal Way, WA 98003

Service Request 07-3017
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Report
 Kalamazoo River RMT Sediment and Water
 Method: EPA 8082

Client ID Sample Date		Lab Control Spike	Lab Control Spike Cleanup	PM-SD-14MS 12/13/07 10:55 001 Matrix	PM-SD-14MSD 12/13/07 10:55 001 Matrix Spike
		LCS	LCS	Spike	Duplicate
Lab ID	CAS	% rec	% rec	% rec	% rec
Aroclor-1016	12674-11-2	91%	95%	79%	76%
Aroclor-1221	11104-28-2	NA	NA	NA	NA
Aroclor-1232	11114-16-5	NA	NA	NA	NA
Aroclor-1242	53469-21-9	NA	NA	NA	NA
Aroclor-1248	12672-29-6	NA	NA	NA	NA
Aroclor-1254	11097-69-1	NA	NA	NA	NA
Aroclor-1260	11096-82-5	99%	100%	90%	85%
Surrogate					
Tetrachloroxylene		86%	80%	83%	81%
Decachlorobiphenyl		87%	88%	84%	83%
Date Extracted		12/14/07	12/14/07	12/14/07	12/14/07
Date Analyzed		12/16/07	12/17/07	12/16/07	12/16/07

Approved: Randy Eatherton
 Telephone: (253)924-6421

Date: 12/20/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-3017
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-21	PM-SD-22	PM-SD-23	PM-SD-24	PM-SD-25	PM-SD-26
Sample Date		12/20/07 8:35	12/20/07 8:40	12/20/07 8:45	12/20/07 8:50	12/20/07 8:55	12/20/2007 9:00
Lab ID		016	017	018	019	020	021
Analyte	CAS	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Aroclor-1016	12674-11-2	<8.9	<8.0	<8.2	<10	<8.3	<8.0
Aroclor-1221	11104-28-2	<8.9	<8.0	<8.2	<10	<8.3	<8.0
Aroclor-1232	11114-16-5	<8.9	<8.0	<8.2	<10	<8.3	<8.0
Aroclor-1242	53469-21-9	<8.9	<8.0	<8.2	<10	<8.3	<8.0
Aroclor-1248	12672-29-6	<8.9	<8.0	15	<10	<8.3	<8.0
Aroclor-1254	11097-69-1	<8.9	<8.0	8.8	<10	<8.3	<8.0
Aroclor-1260	11096-82-5	<8.9	<8.0	<8.2	<10	<8.3	<8.0
Surrogate							
Tetrachloroxylene		75%	75%	80%	80%	92%	76%
Decachlorobiphenyl		83%	88%	85%	84%	101%	86%
Date Extracted		12/26/07	12/26/07	12/26/07	12/26/07	12/26/07	12/26/07
Date Analyzed		12/26/07	12/26/07	12/26/07	12/26/07	12/26/07	12/26/07

NOTE: Sample PM-SD-27 has a large number of unidentified peaks that mask Aroclors 1260 and interfere with Aroclors 1248 and 1254.

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/27/07

Weyerhaeuser Analytical & Testing Services
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Service Request 07-3017
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID Sample Date		PM-SD-27 12/20/07 9:05	Method Blank	Lab Control Spike		
Lab ID		022	BLANK		LCS	001 Matrix Spike
Analyte	CAS	ug/Kg	ug/Kg		% rec	% rec
Aroclor-1016	12674-11-2	60	<6.7		91%	95%
Aroclor-1221	11104-28-2	<8.7	<6.7		NA	NA
Aroclor-1232	11114-16-5	<8.7	<6.7		NA	NA
Aroclor-1242	53469-21-9	<8.7	<6.7		NA	NA
Aroclor-1248	12672-29-6	51	<6.7		NA	NA
Aroclor-1254	11097-69-1	44	<6.7		NA	NA
Aroclor-1260	11096-82-5	26 P	<6.7		97%	91%
Surrogate						
Tetrachloroxylene		78%	73%		76%	84%
Decachlorobiphenyl		80%	88%		89%	84%
Date Extracted		12/26/07	12/26/07		12/26/07	12/26/07
Date Analyzed		12/26/07	12/26/07		12/26/07	12/26/07

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/27/07

Weyerhaeuser Analytical & Testing Services
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Service Request 08-0051
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-28	PM-SD-29	PM-SD-30	PM-SD-31	PM-SD-32	PM-SD-33
Sample Date		01/05/08 12:18	01/05/08 12:26	01/05/08 12:30	01/05/08 12:33	01/05/08 12:37	1/5/2008 12:40
Lab ID		009	010	011	012	013	014
Analyte	CAS	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Aroclor-1016	12674-11-2	<85	<88	<9.5	120 P	270 P	14 P
Aroclor-1221	11104-28-2	<85	<88	<9.5	<9.2	<120	<8.2
Aroclor-1232	11114-16-5	<85	<88	<9.5	<9.2	<120	<8.2
Aroclor-1242	53469-21-9	<85	<88	<9.5	<9.2	<120	<8.2
Aroclor-1248	12672-29-6	160 D	760 D	<9.5	330 D	1200 D	<8.2
Aroclor-1254	11097-69-1	110 D	250 D	<9.5	110	500 D	<8.2
Aroclor-1260	11096-82-5	<85	<88	<9.5	69 P	390 D	<8.2
Surrogate							
Tetrachloroxylene		83%	87%	63%	71%	84%	74%
Decachlorobiphenyl		79%	59%	80%	72%	60%	82%
Date Extracted		01/08/08	01/08/08	01/08/08	01/08/08	01/08/08	01/08/08
Date Analyzed		01/09/08	01/09/08	01/09/08	01/09/08	01/09/08	01/09/08

D Surrogate taken from a diluted run

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 01/15/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0051
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-34	PM-SD-D004	Method	Lab		
Sample Date		01/05/08	01/05/08	Blank	Control	PM-SD-31	PM-SD-31
		12:45	0:00		Spike	01/05/08	01/05/08
						12:33	12:33
						001 Matrix	001 Matrix
Lab ID		015	016	BLANK	LCS	Spike	Spike
Analyte	CAS	ug/Kg	ug/Kg	ug/Kg	% rec	% rec	% rec
Aroclor-1016	12674-11-2	200 D	<95	<6.7	96%	230%	374%
Aroclor-1221	11104-28-2	<98	<95	<6.7	NA	NA	NA
Aroclor-1232	11114-16-5	<98	<95	<6.7	NA	NA	NA
Aroclor-1242	53469-21-9	<98	<95	<6.7	NA	NA	NA
Aroclor-1248	12672-29-6	<98	650	<6.7	NA	NA	NA
Aroclor-1254	11097-69-1	<98	180	<6.7	NA	NA	NA
Aroclor-1260	11096-82-5	<98	<95	<6.7	100%	168%	184%
Surrogate							
Tetrachloroxylene		104%	80%	76%	75%	77%	68%
Decachlorobiphenyl		59%	51%	87%	82%	78%	75%
Date Extracted		01/08/08	01/08/08	01/08/08	01/08/08	01/08/08	01/08/08
Date Analyzed		01/09/08	01/09/08	01/09/08	01/09/08	01/09/08	01/09/08

D Surrogate taken from a diluted run

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 01/15/08

Weyerhaeuser Analytical & Testing Services
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Federal Way, WA 98003

Service Request 08-0051
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-29R	PM-SD-32R	Method	Lab		
Sample Date		01/10/08	01/10/08	Blank	Control	PM-SD-32R	PM-SD-32R
		9:45	9:55		Spike	01/10/08	01/10/08
						9:55	9:55
							001 Matrix
Lab ID		017	018	BLANK	LCS	001 Matrix	Spike
Analyte	CAS	ug/Kg	ug/Kg	ug/Kg	% rec	Spike	Duplicate
Aroclor-1016	12674-11-2	<11	<10	<7.3	88%	NA *	NA *
Aroclor-1221	11104-28-2	<11	<10	<7.3	NA	NA	NA
Aroclor-1232	11114-16-5	<11	<10	<7.3	NA	NA	NA
Aroclor-1242	53469-21-9	<11	<10	<7.3	NA	NA	NA
Aroclor-1248	12672-29-6	<11	590 D	<7.3	NA	NA	NA
Aroclor-1254	11097-69-1	<11	170	<7.3	NA	NA	NA
Aroclor-1260	11096-82-5	<11	<10	<7.3	92%	114%	99%
Surrogate							
Tetrachloroxylene		83%	89%	87%	95%	112%	92%
Decachlorobiphenyl		95%	82%	106%	106%	115%	86%
Date Extracted		01/14/08	01/14/08	01/14/08	01/14/08	01/14/08	01/14/08
Date Analyzed		01/14/08	01/14/08	01/14/08	01/14/08	01/14/08	01/14/08

NOTE: Due to large concentration of Aroclor 1248 in unspike sample, Aroclor 1016 could not be determined in the matrix spikes.

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 01/15/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0251
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-35	PM-SD-36	PM-SD-37	PM-SD-38	PM-SD-39	PM-SD-40
Sample Date		01/31/08 8:38	01/31/08 8:42	01/31/08 8:46	01/31/08 8:50	01/31/08 8:55	1/31/2008 8:59
Lab ID		011	012	013	014	015	016
Analyte	CAS	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Aroclor-1016	12674-11-2	1300 PD	13000 D	2800 PD	220 D	1100 PD	8300 D
Aroclor-1221	11104-28-2	<210	<1000	<1200	<140	<170	<1100
Aroclor-1232	11114-16-5	<210	<1000	<1200	<140	<170	<1100
Aroclor-1242	53469-21-9	<210	<1000	<1200	<140	<170	<1100
Aroclor-1248	12672-29-6	2600 D	7000 PD	5800 D	340 PD	440 PD	12000 D
Aroclor-1254	11097-69-1	2800D	4300 D	3800 D	290 D	240 PD	7000 D
Aroclor-1260	11096-82-5	340 D	<1000	<1200	<140	<170	<1100
Surrogate							
Tetrachloroxylene		104%	117%	113%	130%	117%	119%
Decachlorobiphenyl		88%	99%	82%	197%	73%	71%
Date Extracted		02/04/08	02/04/08	02/04/08	02/04/08	02/04/08	02/04/08
Date Analyzed		02/05/08	02/05/08	02/05/08	02/05/08	02/05/08	02/05/08

D Indicates sample was diluted

Sample PM-SD-38 appears to have a large amount of hydrocarbons, which interfered with matrix spikes
Sample PM-SD-41 had a diesel or oil odor

Surrogate recoveries are from the preliminary analysis since most of the samples were rerun diluted

Aroclor Mixes are heavily weathered

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 02/05/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0251
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID	PM-SD-41	PM-SD-DUP 005	Method Blank	Lab Control Spike	PM-SD-38	PM-SD-38
Sample Date	01/31/08 9:03	01/31/08 0:00			01/31/08 8:50 014	01/31/08 8:50 014
Lab ID	017	018	BLANK	LCS	Matrix	Matrix
Analyte	CAS	ug/Kg	ug/Kg	ug/Kg	% rec	% rec
Aroclor-1016	12674-11-2	20000 D	4400 PD	<6.7	110%	170%
Aroclor-1221	11104-28-2	<16000	<910	<6.7	NA	NA
Aroclor-1232	11114-16-5	<16000	<910	<6.7	NA	NA
Aroclor-1242	53469-21-9	<16000	<910	<6.7	NA	NA
Aroclor-1248	12672-29-6	160000 D	8000 D	<6.7	NA	NA
Aroclor-1254	11097-69-1	310000 D	3700 PD	<6.7	NA	NA
Aroclor-1260	11096-82-5	23000 PD	<910	<6.7	110%	120%
Surrogate						
Tetrachloroxylene		108%	121%	101%	108%	118%
Decachlorobiphenyl		185%	68%	125%	126%	107%
Date Extracted	02/04/08	02/04/08	02/04/08	02/04/08	02/04/08	02/04/08
Date Analyzed	02/05/08	02/05/08	02/05/08	02/05/08	02/05/08	02/05/08

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 02/05/08

Weyerhaeuser Analytical & Testing Services
 32901 Weyerhaeuser Way South
 Federal Way, WA 98003

Service Request 08-0417
 WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-42	PM-SD-43	PM-SD-44	PM-SD-45	PM-SD-46	PM-SD-DUP006
Sample Date		02/13/08 13:05	02/13/08 13:10	02/13/08 13:15	02/13/08 13:21	02/13/08 13:27	2/13/2008 0:00
Lab ID		001	002	003	004	005	006
Analyte	CAS	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>
Aroclor-1016	12674-11-2	<10	<10	<110	<10	<12	<11
Aroclor-1221	11104-28-2	<10	<10	<110	<10	<12	<11
Aroclor-1232	11114-16-5	<10	<10	<110	<10	<12	<11
Aroclor-1242	53469-21-9	<10	<10	<110	<10	<12	<11
Aroclor-1248	12672-29-6	130	200	1300 D	23	79 P	140
Aroclor-1254	11097-69-1	<10	<10	270 D	17	83	<11
Aroclor-1260	11096-82-5	<10	<10	<110	<10	<12	<11
Surrogate		% Rec	% Rec	% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		118%	100%	103%	123%	99%	95%
Decachlorobiphenyl		113%	115%	83%	121%	104%	95%
Date Extracted		02/15/08	02/15/08	02/15/08	02/15/08	02/15/08	02/15/08
Date Analyzed		02/15/08	02/15/08	02/15/08	02/15/08	02/15/08	02/15/08

D Indicates sample was diluted

Approved: Randy Eatherton
 Telephone: (253)924-6421

Date: 03/06/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0417
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		Method	Lab Control		
Sample Date		Blank	Spike	PM-SD-42	PM-SD-42
				02/13/08	02/13/08
				13:05	13:05
				001 Matrix	001 Matrix
Lab ID		BLANK	LCS	Spike	Spike Dup
Analyte	CAS	ug/Kg	% rec	% rec	% rec
Aroclor-1016	12674-11-2	<6.7	95%	180%	111%
Aroclor-1221	11104-28-2	<6.7	NA	NA	NA
Aroclor-1232	11114-16-5	<6.7	NA	NA	NA
Aroclor-1242	53469-21-9	<6.7	NA	NA	NA
Aroclor-1248	12672-29-6	<6.7	NA	NA	NA
Aroclor-1254	11097-69-1	<6.7	NA	NA	NA
Aroclor-1260	11096-82-5	<6.7	107%	10%	119%
Surrogate		% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		102%	96%	113%	109%
Decachlorobiphenyl		114%	125%	120%	113%
Date Extracted		02/15/08	02/15/08	02/15/08	02/15/08
Date Analyzed		02/15/08	02/15/08	02/15/08	02/15/08

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 03/06/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0564
WA Cert.# C1219

Preliminary Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-42R	PM-SD-43R	PM-SD-44R	PM-SD-45R	PM-SD-46R
Sample Date		03/03/08 14:22	03/03/08 14:25	03/03/08 14:30	03/03/08 14:35	03/03/08 14:46
Lab ID		001	002	003	004	005
Analyte	CAS	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>
Aroclor-1016	12674-11-2	<9.9	<9.4	<11	<100	<120
Aroclor-1221	11104-28-2	<9.9	<9.4	<11	<100	<120
Aroclor-1232	11114-16-5	<9.9	<9.4	<11	<100	<120
Aroclor-1242	53469-21-9	<9.9	<9.4	<11	<100	<120
Aroclor-1248	12672-29-6	110 P	150 P	130 P	360 D	420 D
Aroclor-1254	11097-69-1	40	32 P	36 P	250 D	360 D
Aroclor-1260	11096-82-5	<9.9	<9.4	<11	<100	<120
Surrogate		% Rec	% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		85%	98%	88%	73%	85%
Decachlorobiphenyl		114%	110%	111%	80%	80%
Date Extracted		03/05/08	03/05/08	03/05/08	03/05/08	03/05/08
Date Analyzed		03/05/08	03/05/08	03/05/08	03/05/08	03/05/08

D Indicates sample was diluted

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 03/05/08

Weyerhaeuser Analytical & Testing Services
 32901 Weyerhaeuser Way South
 Federal Way, WA 98003

Service Request 08-0564
 WA Cert.# C1219

Preliminary Report
 Kalamazoo River RMT Sediment and Water
 Method: EPA 8082

Client ID		Method	Lab Control		
Sample Date		Blank	Spike	PM-SD-42R	PM-SD-42R
				03/03/08	03/03/08
				14:22	14:22
				001 Matrix	001 Matrix
Lab ID		BLANK	LCS	Spike	Spike Dup
Analyte	CAS	ug/Kg	% rec	% rec	% rec
Aroclor-1016	12674-11-2	<6.7	102%	178%	142%
Aroclor-1221	11104-28-2	<6.7	NA	NA	NA
Aroclor-1232	11114-16-5	<6.7	NA	NA	NA
Aroclor-1242	53469-21-9	<6.7	NA	NA	NA
Aroclor-1248	12672-29-6	<6.7	NA	NA	NA
Aroclor-1254	11097-69-1	<6.7	NA	NA	NA
Aroclor-1260	11096-82-5	<6.7	112%	117%	113%
Surrogate		% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		97%	83%	92%	96%
Decachlorobiphenyl		116%	120%	115%	110%
Date Extracted		03/05/08	03/05/08	03/05/08	03/05/08
Date Analyzed		03/05/08	03/05/08	03/05/08	03/05/08

Approved: Randy Eatherton
 Telephone: (253)924-6421

Date: 03/05/08

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Federal Way, WA 98003

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Preliminary Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-47	PM-SD-48	PM-SD-49	PM-SD-50	PM-SD-51	PM-SD-52
Sample Date		03/06/08 13:23	03/06/08 13:31	03/06/08 13:40	03/06/08 13:48	03/06/08 13:56	03/06/08 14:04
Lab ID		009	010	011	012	013	014
Analyte	CAS	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>
Aroclor-1016	12674-11-2	<8.7	<120	<120	<11	<11	<12
Aroclor-1221	11104-28-2	<8.7	<120	<120	<11	<11	<12
Aroclor-1232	11114-16-5	<8.7	<120	<120	<11	<11	<12
Aroclor-1242	53469-21-9	<8.7	<120	<120	<11	<11	<12
Aroclor-1248	12672-29-6	75 P	860 PD	<120	<11	620 D	140
Aroclor-1254	11097-69-1	100	480 D	370 D	77	830 D	34
Aroclor-1260	11096-82-5	<8.7	<120	<120	<11	<11	<12
Surrogate		% Rec	% Rec	% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		54%	63%	97%	69%	82%	74%
Decachlorobiphenyl		112%	65%	77%	114%	119%	117%
Date Extracted		03/07/08	03/07/08	03/07/08	03/07/08	03/07/08	03/07/08
Date Analyzed		03/10/08	03/10/08	03/10/08	03/10/08	03/10/08	03/10/08

D Indicates sample was diluted

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 03/11/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0564
WA Cert.# C1219

Preliminary Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID	PM-SD-53	DUP 007	Method	Lab Control	PM-SD-52	PM-SD-52
Sample Date	03/06/08	03/06/08	Blank	Spike	03/06/08	03/06/08
	14:10	0:00			14:04	14:04
					014 Matrix	014 Matrix
Lab ID	015	016	BLANK	LCS	Spike	Spike Dup
Analyte	CAS	ug/Kg	ug/Kg	ug/Kg	% rec	% rec
Aroclor-1016	12674-11-2	<8.5	<13	<6.7	79%	85%
Aroclor-1221	11104-28-2	<8.5	<13	<6.7	NA	NA
Aroclor-1232	11114-16-5	<8.5	<13	<6.7	NA	NA
Aroclor-1242	53469-21-9	<8.5	<13	<6.7	NA	NA
Aroclor-1248	12672-29-6	500 D	150	<6.7	NA	NA
Aroclor-1254	11097-69-1	74	86	<6.7	NA	NA
Aroclor-1260	11096-82-5	<8.5	<13	<6.7	94%	117%
Surrogate	% Rec	% Rec	% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene	75%	78%	42%	32%	88%	68%
Decachlorobiphenyl	104%	106%	114%	106%	108%	118%
Date Extracted	03/07/08	03/07/08	03/07/08	03/07/08	03/07/08	03/07/08
Date Analyzed	03/10/08	03/10/08	03/10/08	03/10/08	03/10/08	03/10/08

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 03/11/08

Weyerhaeuser Analytical & Testing Services
 32901 Weyerhaeuser Way South
 Federal Way, WA 98003

Service Request 08-0564
 WA Cert.# C1219

Preliminary Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID	PM-SD-48	PM-SD-51	Method	Lab
Sample Date	03/11/08	03/11/08	Blank	Control
	11:48	12:00		Spike

Lab ID		019	020	BLANK	LCS
<u>Analyte</u>	<u>CAS</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>% rec</u>
Aroclor-1016	12674-11-2	<130	<110	<6.7	100%
Aroclor-1221	11104-28-2	<130	<110	<6.7	NA
Aroclor-1232	11114-16-5	<130	<110	<6.7	NA
Aroclor-1242	53469-21-9	<130	<110	<6.7	NA
Aroclor-1248	12672-29-6	<130	2200 D	<6.7	NA
Aroclor-1254	11097-69-1	1200 D	940 D	<6.7	NA
Aroclor-1260	11096-82-5	<130	<110	<6.7	111%
<u>Surrogate</u>		<u>% Rec</u>	<u>% Rec</u>	<u>% Rec</u>	<u>% Rec</u>
Tetrachloroxylene		81%	80%	85%	86%
Decachlorobiphenyl		101%	69%	122%	122%
Date Extracted		03/13/08	03/13/08	03/13/08	03/13/08
Date Analyzed		03/13/08	03/13/08	03/13/08	03/13/08

D Indicates sample was diluted

Approved: Randy Eatherton
 Telephone: (253)924-6421

Date: 03/13/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0692
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-54	PM-SD-55	PM-SD-56	PM-SD-57	PM-SD-DUP008
Sample Date		03/13/08	03/13/08	03/13/08	03/13/08	03/13/08
		14:39	14:35	14:28	14:20	0:00
Lab ID		001	002	003	004	005
Analyte	CAS	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>
Aroclor-1016	12674-11-2	300 DP	880 D	6000 D	90000 D	280
Aroclor-1221	11104-28-2	<11	<110	<110	<17000	<11
Aroclor-1232	11114-16-5	<11	<110	<110	<17000	<11
Aroclor-1242	53469-21-9	230 DP	700 D	3700 DP	56000 DP	370 P
Aroclor-1248	12672-29-6	160 P	410 D	2200 DP	<17000	<11
Aroclor-1254	11097-69-1	160	180 D	1200 D	8700 DP	210
Aroclor-1260	11096-82-5	<11	<110	<110	1400 DP	<11
Surrogate		% Rec	% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		76%	81%	88%	196%	84%
Decachlorobiphenyl		110%	82%	80%	52%	108%
Date Extracted		03/17/07	03/17/07	03/17/07	03/17/07	03/17/07
Date Analyzed		03/17/08	03/17/08	03/17/08	03/17/08	03/17/08

D Indicates sample was diluted

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 03/25/08

Weyerhaeuser Analytical & Testing Services
 32901 Weyerhaeuser Way South
 Federal Way, WA 98003

Service Request 08-0692
 WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID Sample Date		Method Blank	Lab Control Spike	PM-SD-54 03/13/08 14:39 001 Matrix Spike	PM-SD-54 03/13/08 14:39 001 Matrix Spike Dup
Lab ID		BLANK	LCS		
<u>Analyte</u>	<u>CAS</u>	<u>ug/Kg</u>	<u>% rec</u>	<u>% rec</u>	<u>% rec</u>
Aroclor-1016	12674-11-2	<6.7	90%	140%	182%
Aroclor-1221	11104-28-2	<6.7	NA	NA	NA
Aroclor-1232	11114-16-5	<6.7	NA	NA	NA
Aroclor-1242	53469-21-9	<6.7	NA	NA	NA
Aroclor-1248	12672-29-6	<6.7	NA	NA	NA
Aroclor-1254	11097-69-1	<6.7	NA	NA	NA
Aroclor-1260	11096-82-5	<6.7	107%	110%	118%
<u>Surrogate</u>		<u>% Rec</u>	<u>% Rec</u>	<u>% Rec</u>	<u>% Rec</u>
Tetrachloroxylene		79%	82%	88%	86%
Decachlorobiphenyl		120%	117%	108%	106%
Date Extracted		03/17/07	03/17/07	03/17/07	03/17/07
Date Analyzed		03/17/08	03/17/08	03/17/08	03/17/08

Approved: Randy Eatherton
 Telephone: (253)924-6431

Date: 03/25/08

Weyerhaeuser Analytical & Testing Services
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Federal Way, WA 98003

Service Request 08-0692
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		TP-1.5	TP-2.5	TP-3.5	TP-4.5	TP-5.5	TP-6.5
Sample Date		03/19/08 12:10	03/19/08 12:12	03/19/08 12:17	03/19/08 12:22	03/19/08 12:26	3/19/2008 12:37
Lab ID		013	014	015	016	017	018
Analyte	CAS	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>
Aroclor-1016	12674-11-2	<110	<100	<100	<10	<11	470 DP
Aroclor-1221	11104-28-2	<110	<100	<100	<10	<11	<92
Aroclor-1232	11114-16-5	<110	<100	<100	<10	<11	<92
Aroclor-1242	53469-21-9	<110	<100	<100	<10	<11	560 DP
Aroclor-1248	12672-29-6	3800 DP	1600 DP	460 D	<10	67	<92
Aroclor-1254	11097-69-1	1800 D	650 D	220 D	92	49	170 D
Aroclor-1260	11096-82-5	<110	<100	<100	<10	<11	<92
Surrogate		% Rec	% Rec	% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		84%	85%	88%	109%	117%	82%
Decachlorobiphenyl		71%	72%	76%	106%	82%	76%
Date Extracted		03/21/07	03/21/07	03/21/07	03/21/07	03/21/07	03/21/07
Date Analyzed		03/24/08	03/24/08	03/24/08	03/24/08	03/24/08	03/24/08

D Indicates sample was diluted

Approved: Randy Eatherton
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Date: 03/25/08

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Service Request 08-0692
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SD-57R	PM-SD-56R	PM-SD-55R	Method Blank	Lab Control Spike
Sample Date		03/18/08 13:40	03/18/08 13:45	03/18/08 13:50		
Lab ID		019	020	021	BLANK	LCS
Analyte	CAS	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	% rec
Aroclor-1016	12674-11-2	<100	<86	<140	<6.7	100%
Aroclor-1221	11104-28-2	<100	<86	<140	<6.7	NA
Aroclor-1232	11114-16-5	<100	<86	<140	<6.7	NA
Aroclor-1242	53469-21-9	<100	<86	880	<6.7	NA
Aroclor-1248	12672-29-6	900 DP	620 DP	600 DP	<6.7	NA
Aroclor-1254	11097-69-1	350 D	250 D	260 D	<6.7	NA
Aroclor-1260	11096-82-5	<100	<86	<140	<6.7	102%
Surrogate		% Rec	% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		94%	102%	82%	94%	104%
Decachlorobiphenyl		85%	86%	64%	114%	112%
Date Extracted		03/21/07	03/21/07	03/21/07	03/21/07	03/21/07
Date Analyzed		03/24/08	03/24/08	03/24/08	03/24/08	03/24/08

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 03/25/08

Weyerhaeuser Analytical & Testing Services
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Federal Way, WA 98003

Service Request 08-0692
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		TP-1	TP-2	TP-3	TP-4	TP-5	TP-6
Sample Date		03/14/08 9:42	03/14/08 9:51	03/14/08 10:00	03/14/08 10:13	03/14/08 10:20	03/14/08 10:27
Lab ID		006	007	008	009	010	011
Analyte	CAS	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>ug/Kg</u>
Aroclor-1016	12674-11-2	<120	<100	<11	<9.7	<10	<10
Aroclor-1221	11104-28-2	<120	<100	<11	<9.7	<10	<10
Aroclor-1232	11114-16-5	<120	<100	<11	<9.7	<10	<10
Aroclor-1242	53469-21-9	<120	<100	<11	<9.7	<10	<10
Aroclor-1248	12672-29-6	<120	<100	<11	<9.7	<10	<10
Aroclor-1254	11097-69-1	350 D	280 D	43 P	52	12 P	75 P
Aroclor-1260	11096-82-5	<120	<100	<11	<9.7	<10	<10
Surrogate		% Rec	% Rec	% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		83%	82%	80%	89%	97%	108%
Decachlorobiphenyl		105%	93%	107%	107%	104%	117%
Date Extracted		03/19/08	03/19/08	03/19/08	03/19/08	03/19/08	03/19/08
Date Analyzed		03/19/08	03/19/08	03/19/08	03/19/08	03/19/08	03/19/08

D Indicates sample was diluted

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 03/25/08

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Federal Way, WA 98003

Service Request 08-0692
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID Sample Date		TP - DUP 03/14/08 0:00	Method Blank	Lab Control Spike		
Lab ID		012	BLANK	LCS	001 Matrix Spike	001 Matrix Spike Dup
<u>Analyte</u>	<u>CAS</u>	<u>ug/Kg</u>	<u>ug/Kg</u>	<u>% rec</u>	<u>% rec</u>	<u>% rec</u>
Aroclor-1016	12674-11-2	<10	<6.7	96%	100%	120%
Aroclor-1221	11104-28-2	<10	<6.7	NA	NA	NA
Aroclor-1232	11114-16-5	<10	<6.7	NA	NA	NA
Aroclor-1242	53469-21-9	<10	<6.7	NA	NA	NA
Aroclor-1248	12672-29-6	<10	<6.7	NA	NA	NA
Aroclor-1254	11097-69-1	10 P	<6.7	NA	NA	NA
Aroclor-1260	11096-82-5	<10	<6.7	109%	108%	120%
<u>Surrogate</u>		<u>% Rec</u>	<u>% Rec</u>	<u>% Rec</u>	<u>% Rec</u>	<u>% Rec</u>
Tetrachloroxylene		98%	69%	80%	83%	93%
Decachlorobiphenyl		111%	110%	116%	104%	108%
Date Extracted		03/19/08	03/19/08	03/19/08	03/19/08	03/19/08
Date Analyzed		03/19/08	03/19/08	03/19/08	03/19/08	03/19/08

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 03/25/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-2796
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

		PM-SW-1D · PM-SW-2U -			
Client ID		grab	grab	PM-SW-3U	PM-SW-4D
Sample Date		11/15/07 15:22	11/15/07 15:37	11/20/07 10:19	11/20/07 10:32
Lab ID		001	002	009	010
Analyte	CAS	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aroclor-1016	12674-11-2	<0.20	<0.20	<0.20	<0.20
Aroclor-1221	11104-28-2	<0.20	<0.20	<0.20	<0.20
Aroclor-1232	11114-16-5	<0.20	<0.20	<0.20	<0.20
Aroclor-1242	53469-21-9	<0.20	<0.20	<0.20	<0.20
Aroclor-1248	12672-29-6	<0.20	<0.20	<0.20	<0.20
Aroclor-1254	11097-69-1	<0.20	<0.20	<0.20	<0.20
Aroclor-1260	11096-82-5	<0.20	<0.20	<0.20	<0.20
Surrogate					
Tetrachloroxylene		80%	79%	81%	79%
Decachlorobiphenyl		80%	80%	86%	86%
Date Extracted		11/16/07	11/16/07	11/26/07	11/26/07
Date Analyzed		11/29/07	11/29/07	11/29/07	11/29/07

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/03/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-2796
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID	Method	Method	Lab	Lab
Sample Date	Blank	Blank	Control	Control
			Spike	Spike

Lab ID

Analyte	CAS	ug/L	ug/L	% Rec	% Rec
Aroclor-1016	12674-11-2	<0.20	<0.20	98%	91%
Aroclor-1221	11104-28-2	<0.20	<0.20	NA	NA
Aroclor-1232	11114-16-5	<0.20	<0.20	NA	NA
Aroclor-1242	53469-21-9	<0.20	<0.20	NA	NA
Aroclor-1248	12672-29-6	<0.20	<0.20	NA	NA
Aroclor-1254	11097-69-1	<0.20	<0.20	NA	NA
Aroclor-1260	11096-82-5	<0.20	<0.20	102%	93%

Surrogate

Tetrachloroxylene	75%	76%	84%	82%
Decachlorobiphenyl	68%	76%	77%	84%
Date Extracted	11/16/07	11/26/07	11/16/07	11/26/07
Date Analyzed	11/29/07	11/29/07	11/29/07	11/30/07

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/03/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-2896
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID	PM-SW-5U	PM-SW-6D
Sample Date	11/29/07	11/29/07
	14:22	14:49

Lab ID		001	002
Analyte	CAS	ug/L	ug/L
Aroclor-1016	12674-11-2	<0.20	<0.20
Aroclor-1221	11104-28-2	<0.20	<0.20
Aroclor-1232	11114-16-5	<0.20	<0.20
Aroclor-1242	53469-21-9	<0.20	<0.20
Aroclor-1248	12672-29-6	<0.20	<0.20
Aroclor-1254	11097-69-1	<0.20	<0.20
Aroclor-1260	11096-82-5	<0.20	<0.20

Surrogate		
Tetrachloroxylene	78%	60%
Decachlorobiphenyl	87%	78%
Date Extracted	12/03/07	12/03/07
Date Analyzed	12/04/07	12/04/07

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/07/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-2896
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID	Method	Lab Control
Sample Date	Blank	Spike

Lab ID

Analyte	CAS	ug/L	% Rec
Aroclor-1016	12674-11-2	<0.20	99%
Aroclor-1221	11104-28-2	<0.20	NA
Aroclor-1232	11114-16-5	<0.20	NA
Aroclor-1242	53469-21-9	<0.20	NA
Aroclor-1248	12672-29-6	<0.20	NA
Aroclor-1254	11097-69-1	<0.20	NA
Aroclor-1260	11096-82-5	<0.20	86%

Surrogate

Tetrachloroxylene	76%	82%
Decachlorobiphenyl	81%	72%
Date Extracted	12/03/07	12/03/07
Date Analyzed	12/04/07	12/04/07

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/07/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-3017
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID	PM-SW-8U	PM-SW-7D
Sample Date	12/12/07	12/12/07
	9:42	9:24

Lab ID		010	011
<u>Analyte</u>	<u>CAS</u>	<u>ug/L</u>	<u>ug/L</u>
Aroclor-1016	12674-11-2	<0.20	<0.20
Aroclor-1221	11104-28-2	<0.20	<0.20
Aroclor-1232	11114-16-5	<0.20	<0.20
Aroclor-1242	53469-21-9	<0.20	<0.20
Aroclor-1248	12672-29-6	<0.20	<0.20
Aroclor-1254	11097-69-1	<0.20	<0.20
Aroclor-1260	11096-82-5	<0.20	<0.20

<u>Surrogate</u>		
Tetrachloroxylene	71%	73%
Decachlorobiphenyl	75%	79%
Date Extracted	12/18/07	12/18/07
Date Analyzed	12/20/07	12/20/07

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/27/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 07-3017
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID	Method	Lab Control
Sample Date	Blank	Spike

Lab ID

<u>Analyte</u>	<u>CAS</u>	<u>ug/L</u>	<u>% Rec</u>
Aroclor-1016	12674-11-2	<0.20	83%
Aroclor-1221	11104-28-2	<0.20	NA
Aroclor-1232	11114-16-5	<0.20	NA
Aroclor-1242	53469-21-9	<0.20	NA
Aroclor-1248	12672-29-6	<0.20	NA
Aroclor-1254	11097-69-1	<0.20	NA
Aroclor-1260	11096-82-5	<0.20	91%

Surrogate

Tetrachloroxylene	77%	77%
Decachlorobiphenyl	79%	65%
Date Extracted	12/18/07	12/18/07
Date Analyzed	12/20/07	12/20/07

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 12/27/07

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0051
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SW-11U	PM-SW-12D	PM-SW-10U	PM-SW-9D	Method Blank	Lab Control Spike
Sample Date		01/03/08 16:05	01/03/08 15:27	12/20/07 14:43	12/20/07 14:52		
Lab ID		001	002	003	004	BLANK	LCS
Analyte	CAS	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aroclor-1016	12674-11-2	<0.22	<0.22	<0.22	<0.22	<0.22	96%
Aroclor-1221	11104-28-2	<0.22	<0.22	<0.22	<0.22	<0.22	NA
Aroclor-1232	11114-16-5	<0.22	<0.22	<0.22	<0.22	<0.22	NA
Aroclor-1242	53469-21-9	<0.22	<0.22	<0.22	<0.22	<0.22	NA
Aroclor-1248	12672-29-6	<0.22	<0.22	<0.22	<0.22	<0.22	NA
Aroclor-1254	11097-69-1	<0.22	<0.22	<0.22	<0.22	<0.22	NA
Aroclor-1260	11096-82-5	<0.22	<0.22	<0.22	<0.22	<0.22	105%
Surrogate							
Tetrachloroxylene		76%	77%	78%	73%	68%	70%
Decachlorobiphenyl		100%	87%	99%	93%	77%	64%
Date Extracted		01/07/08	01/07/08	01/07/08	01/07/08	01/07/08	01/07/08
Date Analyzed		01/10/08	01/10/08	01/10/08	01/10/08	01/10/08	01/10/08

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 01/15/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0133
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 608

Client ID		PM-SW-13D	PM-SW-14U	WWTP-Influent	WWTP-Intermediate	WWTP-Influent-2	WWTP-Intermediate-2
Sample Date		01/11/08 10:54	01/11/08 11:10	01/14/08 12:37	01/14/08 12:40	01/14/08 16:20	01/14/08 16:30
Lab ID		001	002	003	004	005	006
Analyte	CAS	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Aroclor-1016	12674-11-2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1221	11104-28-2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1232	11114-16-5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1242	53469-21-9	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1248	12672-29-6	<0.20	<0.20	1.2	0.53	0.94	0.43
Aroclor-1254	11097-69-1	<0.20	<0.20	0.71	0.52	0.56	0.36
Aroclor-1260	11096-82-5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate							
Tetrachloroxylene		71%	79%	83%	80%	84%	72%
Decachlorobiphenyl		89%	92%	78%	83%	80%	72%
Date Extracted		01/16/08	01/16/08	01/16/08	01/16/08	01/16/08	01/16/08
Date Analyzed		01/24/08	01/24/08	01/24/08	01/24/08	01/24/08	01/24/08

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 01/25/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0133
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 608

Client ID	WWTP- Effluent	WWTP- Effluent 2	Method Blank	Lab Control Spike
Sample Date	01/14/08 12:45	01/14/08 16:35		

Lab ID		007	008	BLANK	LCS
Analyte	CAS	ug/L	ug/L	ug/L	% Rec
Aroclor-1016	12674-11-2	<0.20	<0.20	<0.20	73%
Aroclor-1221	11104-28-2	<0.20	<0.20	<0.20	NA
Aroclor-1232	11114-16-5	<0.20	<0.20	<0.20	NA
Aroclor-1242	53469-21-9	<0.20	<0.20	<0.20	NA
Aroclor-1248	12672-29-6	0.54	0.40	<0.20	NA
Aroclor-1254	11097-69-1	0.45	0.33	<0.20	NA
Aroclor-1260	11096-82-5	<0.20	<0.20	<0.20	82%
Surrogate					
Tetrachloroxylene		85%	83%	59%	55%
Decachlorobiphenyl		82%	83%	74%	91%
Date Extracted		01/16/08	01/16/08	01/16/08	01/16/08
Date Analyzed		01/24/08	01/24/08	01/24/08	01/24/08

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 01/25/08

Report

Kalamazoo River RMT Sediment and Waters

Sample Designation	Date Sampled	Time Sampled	Analytical Lab Code	TSS mg/L	TP
WWTP-Effluent	01/14/08	1245	007	7	0.48
			007D	5	0.47
WWTP-Effluent 2	01/14/08	1635	008	6	0.29

Date Analyzed: 1/17/2008 1/18/2008
Method Used: AM S-2540 D AM E-365.3
Analyst: MR MR

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0251
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SW-15D	PM-SW-16D	Method Blank	Lab Control Spike
Sample Date		01/31/08 9:45	01/31/08 9:40		
Lab ID		019	020	BLANK	LCS
Analyte	CAS	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	% rec
Aroclor-1016	12674-11-2	<0.20	<0.20	<0.20	92%
Aroclor-1221	11104-28-2	<0.20	<0.20	<0.20	NA
Aroclor-1232	11114-16-5	<0.20	<0.20	<0.20	NA
Aroclor-1242	53469-21-9	<0.20	<0.20	<0.20	NA
Aroclor-1248	12672-29-6	<0.20	<0.20	<0.20	NA
Aroclor-1254	11097-69-1	<0.20	<0.20	<0.20	NA
Aroclor-1260	11096-82-5	<0.20	<0.20	<0.20	100%
Surrogate					
Tetrachloroxylene		106%	107%	100%	98%
Decachlorobiphenyl		103%	103%	110%	105%
Date Extracted		02/06/08	02/06/08	02/06/08	02/06/08
Date Analyzed		02/07/08	02/07/08	02/07/08	02/07/08

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 02/22/08

Weyerhaeuser Analytical & Testing Services
 32901 Weyerhaeuser Way South
 Federal Way, WA 98003

Service Request 08-0417
 WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		PM-SW-17D	PM-SW-18U	Method Blank	Lab Control Spike
Sample Date		02/13/08 15:05	02/13/08 15:10		
Lab ID		007	008	BLANK	LCS
Analyte	CAS	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>% rec</u>
Aroclor-1016	12674-11-2	<0.20	<0.20	<0.20	89%
Aroclor-1221	11104-28-2	<0.20	<0.20	<0.20	NA
Aroclor-1232	11114-16-5	<0.20	<0.20	<0.20	NA
Aroclor-1242	53469-21-9	<0.20	<0.20	<0.20	NA
Aroclor-1248	12672-29-6	<0.20	<0.20	<0.20	NA
Aroclor-1254	11097-69-1	<0.20	<0.20	<0.20	NA
Aroclor-1260	11096-82-5	<0.20	<0.20	<0.20	97%
Surrogate		<u>% rec</u>	<u>% rec</u>	<u>% rec</u>	<u>% rec</u>
Tetrachloroxylene		96%	101%	90%	93%
Decachlorobiphenyl		104%	103%	106%	100%
Date Extracted		02/19/08	02/19/08	02/19/08	02/19/08
Date Analyzed		02/25/08	02/25/08	02/25/08	02/25/08

Approved: Randy Eatherton
 Telephone: (253)924-6431

Date: 03/06/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0564
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID		Culvert	PM-SW-19D	PM-SW-20U	PM-SW-21U	PM-SW-22D
Sample Date		03/03/08 14:01	03/03/08 15:15	03/03/08 15:22	03/06/08 14:25	03/06/08 14:32
Lab ID		006	007	008	017	018
Analyte	CAS	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aroclor-1016	12674-11-2	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1221	11104-28-2	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1232	11114-16-5	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1242	53469-21-9	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1248	12672-29-6	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1254	11097-69-1	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1260	11096-82-5	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate		% Rec	% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		88%	84%	90%	87%	84%
Decachlorobiphenyl		103%	96%	100%	97%	95%
Date Extracted		01/07/08	01/07/08	01/07/08	03/11/08	03/11/08
Date Analyzed		03/18/08	03/18/08	03/18/08	03/18/08	03/18/08

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 03/25/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0564
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment and Water
Method: EPA 8082

Client ID
Sample Date

Method
Blank

Method
Blank

Lab Control
Spike

Lab Control
Spike

Lab ID		BLANK	BLANK	LCS	LCS
Analyte	CAS	ug/Kg	% rec	% rec	% rec
Aroclor-1016	12674-11-2	<0.20	<0.20	112%	110%
Aroclor-1221	11104-28-2	<0.20	<0.20	NA	NA
Aroclor-1232	11114-16-5	<0.20	<0.20	NA	NA
Aroclor-1242	53469-21-9	<0.20	<0.20	NA	NA
Aroclor-1248	12672-29-6	<0.20	<0.20	NA	NA
Aroclor-1254	11097-69-1	<0.20	<0.20	NA	NA
Aroclor-1260	11096-82-5	<0.20	<0.20	120%	117%
Surrogate		% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		80%	83%	89%	88%
Decachlorobiphenyl		91%	88%	101%	97%
Date Extracted		03/06/08	03/11/08	03/06/08	03/11/08
Date Analyzed		03/18/08	03/18/08	03/18/08	03/18/08

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 03/25/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0758
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment/Waters
Method: EPA 608

Client ID	WWTP -	Method	Lab	WWTP -	WWTP -
Sample Date	Effluent	Blank	Control	Effluent	Effluent
	03/19/08		Spike	03/19/08	03/19/08
	17:04			17:04	17:04
				Matrix	Matrix
Lab ID	001			Spike	Spike Dup
Analyte	CAS	ug/L	ug/L	% Rec	% Rec
Aroclor-1016	12674-11-2	<0.20	<0.20	91%	101%
Aroclor-1221	11104-28-2	<0.20	<0.20	NA	NA
Aroclor-1232	1114-16-5	<0.20	<0.20	NA	NA
Aroclor-1242	53469-21-9	<0.20	<0.20	NA	NA
Aroclor-1248	12672-29-6	0.18 J	<0.20	NA	NA
Aroclor-1254	11097-69-1	0.082 JP	<0.20	NA	NA
Aroclor-1260	11096-82-5	<0.20	<0.20	95%	104%
Surrogate		% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		85%	88%	93%	86%
Decachlorobiphenyl		95%	94%	89%	93%
Date Extracted	03/21/08	03/21/08	03/21/08	03/21/08	03/21/08
Date Analyzed	03/21/08	03/21/08	03/21/08	03/21/08	03/21/08

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 04/04/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0758
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment/Waters
Method: EPA 608

Client ID Sample Date		WWTP -				
		Effluent DUP	WWTP Effluent	WWTP Influent	WWTP Effluent	WWTP Influent
		03/19/08 17:04	03/28/08 8:50	03/28/08 13:05	03/31/08 10:00	03/31/08 15:15
Lab ID		002	003	004	005	006
Analyte	CAS	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>
Aroclor-1016	12674-11-2	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1221	11104-28-2	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1232	1114-16-5	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1242	53469-21-9	<0.20	<0.20	<0.20	<0.20	<0.20
Aroclor-1248	12672-29-6	0.11 JP	<0.20	<0.20	<0.20	0.29
Aroclor-1254	11097-69-1	0.085 JP	0.027 J	0.11 JP	<0.20	0.16 JP
Aroclor-1260	11096-82-5	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate		% Rec	% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		91%	92%	98%	98%	96%
Decachlorobiphenyl		99%	98%	107%	102%	87%
Date Extracted		03/26/08	04/03/08	04/03/08	04/03/08	04/03/08
Date Analyzed		04/03/08	04/03/08	04/03/08	04/03/08	04/03/08

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 04/04/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0758
WA Cert.# C1219

Report
Kalamazoo River RMT Sediment/Waters
Method: EPA 608

Client ID
Sample Date

Method	Method	Lab	Lab
Blank	Blank	Control	Control
		Spike	Spike

Lab ID

Analyte	CAS	ug/L	ug/L	% Rec	% Rec
Aroclor-1016	12674-11-2	<0.20	<0.20	84%	81%
Aroclor-1221	11104-28-2	<0.20	<0.20	NA	NA
Aroclor-1232	1114-16-5	<0.20	<0.20	NA	NA
Aroclor-1242	53469-21-9	<0.20	<0.20	NA	NA
Aroclor-1248	12672-29-6	<0.20	<0.20	NA	NA
Aroclor-1254	11097-69-1	<0.20	<0.20	NA	NA
Aroclor-1260	11096-82-5	<0.20	<0.20	87%	88%
Surrogate		% Rec	% Rec	% Rec	% Rec
Tetrachloroxylene		73%	79%	89%	84%
Decachlorobiphenyl		76%	106%	85%	92%
Date Extracted		03/26/08	04/03/08	03/26/08	04/03/08
Date Analyzed		04/03/08	04/03/08	04/03/08	04/03/08

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 04/04/08

Report

Kalamazoo River RMT Sediment/Waters

Sample Designation	Sample Date	Sample Time	Analytical Lab Code	TP mg/L	TSS mg/L
WWTP - Effluent	03/19/08	1704	001	0.22	< 4
			001D	0.21	< 4
WWTP - Effluent	03/28/08	0850	003	0.14	< 4
			003D	0.15	---
WWTP - Influent	03/28/08	1305	004	0.30	77
WWTP - Effluent	03/31/08	1000	005	0.12	< 4
WWTP - Influent	03/31/08	1515	006	0.46	120

Date Analyzed: 3/21/2008 3/21/2008
4/3/2008 4/3/2008
Method Used: AM E-365.3 AM S-2540D
QL: 0.01 4
Analyst: MR MR

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0895
WA Cert.# C1219

Preliminary Report
Kalamazoo River RMT Sediment and Waters
Method: EPA 8082

Client ID	WWTP	Method	Lab
Sample Date	Effluent	Blank	Control
	4/3/2008		Spike
	8:20		

Lab ID	001			
Analyte	CAS	ug/L	% Rec	% Rec
Aroclor-1016	12674-11-2	<0.20	<0.20	84%
Aroclor-1221	11104-28-2	<0.20	<0.20	NA
Aroclor-1232	1114-16-5	<0.20	<0.20	NA
Aroclor-1242	53469-21-9	<0.20	<0.20	NA
Aroclor-1248	12672-29-6	<0.20	<0.20	NA
Aroclor-1254	11097-69-1	<0.20	<0.20	NA
Aroclor-1260	11096-82-5	<0.20	<0.20	87%
Surrogate		% Rec	% Rec	% Rec
Tetrachloroxylene		92%	82%	94%
Decachlorobiphenyl		97%	105%	107%
Date Extracted	04/07/08	04/07/08	04/07/08	04/07/08
Date Analyzed	04/07/08	04/07/08	04/07/08	04/07/08

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 04/07/08

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-0895
WA Cert.# C1219

Preliminary Report
Kalamazoo River RMT Sediment and Waters
Method: EPA 8082

Client ID	WWTP	Method	Lab
Sample Date	Effluent	Blank	Control
	4/7/2008		Spike
	13:40		

Lab ID	002			
Analyte	CAS	<u>ug/L</u>	<u>% Rec</u>	<u>% Rec</u>
Aroclor-1016	12674-11-2	<0.20	<0.20	78%
Aroclor-1221	11104-28-2	<0.20	<0.20	NA
Aroclor-1232	11114-16-5	<0.20	<0.20	NA
Aroclor-1242	53469-21-9	<0.20	<0.20	NA
Aroclor-1248	12672-29-6	<0.20	<0.20	NA
Aroclor-1254	11097-69-1	<0.20	<0.20	NA
Aroclor-1260	11096-82-5	<0.20	<0.20	82%
Surrogate		<u>% Rec</u>	<u>% Rec</u>	<u>% Rec</u>
Tetrachloroxylene		89%	81%	86%
Decachlorobiphenyl		90%	98%	102%
Date Extracted	04/09/08	04/09/08	04/09/08	04/09/08
Date Analyzed	04/10/08	04/10/08	04/10/08	04/10/08

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 04/11/08

Report

Kalamazoo River RMT Sediment/Waters

Sample Designation	Sample Date	Sample Time	Analytical Lab Code	TP mg/L	TSS mg/L
WWTP - Effluent	04/03/08	0820	001	0.11	< 4
			001D	---	< 4
WWTP - Effluent	04/07/08	1340	002	0.07	< 4

Date Analyzed: 4/7/2008 4/7/2008
Method Used: AM E-365.3 AM S-2540D
QL: 0.01 4
Analyst: MR/JC MR

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-1482
WA Cert.# C1219

Report
Kalamazoo River RMT Waters
Method: EPA 608

Client ID	Effluent	Effluent	Method	Lab Control
Sample Date	WWTP	WWTP	Blank	Spike
	06/16/08	06/16/08		
	13:05	13:05		

Lab ID		BLANK	001DUP	BLANK	LCS
<u>Analyte</u>	<u>CAS</u>	<u>ug/L</u>	<u>ug/L</u>	<u>ug/L</u>	<u>% Recovery</u>
Aroclor-1016	12674-11-2	<0.22	<0.22	<0.20	88%
Aroclor-1221	11104-28-2	<0.22	<0.22	<0.20	NA
Aroclor-1232	11114-16-5	<0.22	<0.22	<0.20	NA
Aroclor-1242	53469-21-9	<0.22	<0.22	<0.20	NA
Aroclor-1248	12672-29-6	<0.22	<0.22	<0.20	NA
Aroclor-1254	11097-69-1	<0.22	<0.22	<0.20	NA
Aroclor-1260	11096-82-5	<0.22	<0.22	<0.20	105%
<u>Surrogate</u>					
Tetrachloroxylene		141%	138%	122%	136%
Decachlorobiphenyl		125%	124%	125%	128%
Date Extracted		06/17/08	06/18/08	06/17/08	06/18/08
Date Analyzed		06/18/08	06/18/08	06/18/08	06/18/08

Approved: Randy Eatherton
Telephone: (253)924-6421

Date: 06/19/08

Report

Kalamazoo River RMT Waters

Sample Designation	Date Sampled	Time Sampled	Analytical Lab Code	TSS mg/L	TP
Effluent WWTP	06/16/08	1305	001	< 4	0.10
			001D	< 4	0.10

Date Analyzed: 6/18/2008 6/18/2008
Method Used: AM S-2540 D AM E-365.3
Analyst: MR JC

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32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-2210
WA Cert.# C1219

Report
Kalamazoo River RMT Waters
Method: EPA 608

Client ID	WWTP	Method	Lab
Sample Date	Effluent	Blank	Control
	10/14/08		Spike
	8:02		

Lab ID		001	BLANK	LCS
<u>Analyte</u>	<u>CAS</u>	<u>ug/L</u>	<u>ug/L</u>	<u>% Recovery</u>
Aroclor-1016	12674-11-2	<0.20	<0.20	80%
Aroclor-1221	11104-28-2	<0.20	<0.20	NA
Aroclor-1232	11114-16-5	<0.20	<0.20	NA
Aroclor-1242	53469-21-9	<0.20	<0.20	NA
Aroclor-1248	12672-29-6	<0.20	<0.20	NA
Aroclor-1254	11097-69-1	<0.20	<0.20	NA
Aroclor-1260	11096-82-5	<0.20	<0.20	90%
<u>Surrogate</u>				
Tetrachloroxylene		88%	88%	90%
Decachlorobiphenyl		106%	92%	90%
Date Extracted		10/17/08	10/17/08	10/17/08
Date Analyzed		10/17/08	10/17/08	10/17/08

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 10/20/08

Report

Kalamazoo River RMT Waters

Sample Designation	Date Sampled	Time Sampled	Analytical Lab Code	TSS mg/L	TP mg/L
Effluent WWTP	10/14/08	0802	001	< 4	0.02
			001D	< 4	0.01

Date Analyzed: 10/17/2008 10/21/2008
Method Used: AM S-2540 D AM E-365.3
QL: 4 0.01
Analyst: MR JC

Weyerhaeuser Analytical & Testing Services
32901 Weyerhaeuser Way South
Federal Way, WA 98003

Service Request 08-2302
WA Cert.# C1219

Report
Kalamazoo River RMT Waters
Method: EPA 608

Client ID	WWTP-	Method	Lab
Sample Date	Effluent	Blank	Control
	10/30/08		Spike
	13:40		

Lab ID		001	BLANK	LCS
<u>Analyte</u>	<u>CAS</u>	<u>ug/L</u>	<u>ug/L</u>	<u>% Recovery</u>
Aroclor-1016	12674-11-2	<0.20	<0.20	87%
Aroclor-1221	11104-28-2	<0.20	<0.20	NA
Aroclor-1232	11114-16-5	<0.20	<0.20	NA
Aroclor-1242	53469-21-9	<0.20	<0.20	NA
Aroclor-1248	12672-29-6	<0.20	<0.20	NA
Aroclor-1254	11097-69-1	<0.20	<0.20	NA
Aroclor-1260	11096-82-5	<0.20	<0.20	99%
<u>Surrogate</u>				
Tetrachloroxylene		84%	76%	86%
Decachlorobiphenyl		111%	85%	93%
Date Extracted		11/03/08	11/03/08	11/03/08
Date Analyzed		11/03/08	11/03/08	11/03/08

Approved: Randy Eatherton
Telephone: (253)924-6431

Date: 11/04/08

Weyerhaeuser Analysis and Testing Services
32901 Weyerhaeuser Way South
Federal Way, Washington 98003

Service Request 08-2302

Report

Kalamazoo River RMT Waters

Sample Designation	Date Sampled	Time Sampled	Analytical Lab Code	TSS mg/L	TP mg/L
Effluent WWTP	10/30/08	1340	001	< 4	0.02
			001D	< 4	---

Date Analyzed: 11/3/2008 11/12/2008
Method Used: AM S-2540 D AM E-365.3
QL: 4 0.01
Analyst: MR MR

PCBs

Summary of Test Results

Project Name: Plainwell Mill Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-1
Date Collected: 02/07/08
Sample Type: Soil

Date Extracted: 02/08/08 Lab Sample Number: A080602-01
Date Analyzed: 02/08/08, 02/09/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1, 10, 100
Solids, Total: 47.6%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	57
PCB-1232	0.10	< 0.10
PCB-1242	0.10	75
PCB-1248	0.10	76
PCB-1254	0.10	65
PCB-1260	0.10	15
TCMX (Surr)		67.1%
DCB (Surr)		89.9%

Method Reference: Modified 8081

WI Lab Certification #113289110

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Date:

PCBs
Summary of Test Results

Project Name: Plainwell Mill Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-2
Date Collected: 02/07/08
Sample Type: Soil

Date Extracted: 02/08/08 Lab Sample Number: A080602-02
Date Analyzed: 02/08/08, 02/09/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1, 10
Solids, Total: 46.8%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	14
PCB-1248	0.10	4.9
PCB-1254	0.10	3.7
PCB-1260	0.10	0.98
TCMX (Surr)		68.6%
DCB (Surr)		85.1%

Method Reference: Modified 8081

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PCBs
Summary of Test Results

Project Name: Plainwell Mill Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-3
Date Collected: 02/07/08
Sample Type: Soil

Date Extracted: 02/08/08 Lab Sample Number: A080602-03
Date Analyzed: 02/08/08, 02/09/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1
Solids, Total: 81.8%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	0.11
PCB-1248	0.10	0.15
PCB-1254	0.10	< 0.10
PCB-1260	0.10	< 0.10
TCMX (Surr)		85.5%
DCB (Surr)		82.1%

Method Reference: Modified 8081

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PCBs
Summary of Test Results

Project Name: Plainwell Mill Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-4
Date Collected: 02/07/08
Sample Type: Soil

Date Extracted: 02/08/08 Lab Sample Number: A080602-04
Date Analyzed: 02/08/08, 02/09/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1
Solids, Total: 75.7%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	0.46
PCB-1248	0.10	0.59
PCB-1254	0.10	0.87
PCB-1260	0.10	0.22
TCMX (Surr)		92.8%
DCB (Surr)		89.2%

Method Reference: Modified 8081

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Summary of Test Results

Project Name: Plainwell Mill Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-5
Date Collected: 02/07/08
Sample Type: Soil

Date Extracted: 02/08/08 Lab Sample Number: A080602-05
Date Analyzed: 02/08/08, 02/09/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1
Solids, Total: 51.4%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	0.22
PCB-1248	0.10	0.95
PCB-1254	0.10	3.4
PCB-1260	0.10	0.55
TCMX (Surr)		88.9%
DCB (Surr)		86.7%

Method Reference: Modified 8081

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Date:

PCBs
Summary of Test Results

Project Name: Plainwell Mill Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-6
Date Collected: 02/07/08
Sample Type: Soil

Date Extracted: 02/08/08 Lab Sample Number: A080602-06
Date Analyzed: 02/08/08, 02/09/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1
Solids, Total: 74.1%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	< 0.10
PCB-1248	0.10	< 0.10
PCB-1254	0.10	0.11
PCB-1260	0.10	< 0.10
TCMX (Surr)		88.4%
DCB (Surr)		90.6%

Method Reference: Modified 8081

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Date:

PCBs

Summary of Test Results

Project Name: Plainwell Mill Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-7
Date Collected: 02/07/08
Sample Type: Soil

Date Extracted: 02/08/08 Lab Sample Number: A080602-07
Date Analyzed: 02/08/08, 02/09/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1
Solids, Total: 42.1%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	< 0.10
PCB-1248	0.10	2.1
PCB-1254	0.10	1.7
PCB-1260	0.10	0.57
TCMX (Surr)		91.1%
DCB (Surr)		91.5%

Method Reference: Modified 8081

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Date:

PCBs
Summary of Test Results

Project Name: Plainwell Mill Banks Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-8
Date Collected: 02/13/08
Sample Type: Soil

Date Extracted: 02/15/08 Lab Sample Number: A080713-01
Date Analyzed: 02/15/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1, 10
Solids, Total: 56.0%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	0.94
PCB-1248	0.10	9.3
PCB-1254	0.10	11
PCB-1260	0.10	2.2
TCMX (Surr)		124%
DCB (Surr)		150%

Method Reference: Modified 8081

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Approved by:

Date:

PCBs

Summary of Test Results

Project Name: Plainwell Mill Banks Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-9
Date Collected: 02/13/08
Sample Type: Soil

Date Extracted: 02/15/08 Lab Sample Number: A080713-02
Date Analyzed: 02/15/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1
Solids, Total: 78.7%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	< 0.10
PCB-1248	0.10	0.17
PCB-1254	0.10	0.18
PCB-1260	0.10	< 0.10
TCMX (Surr)		128%
DCB (Surr)		129%

Method Reference: Modified 8081

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Approved by:

Date:

PCBs
Summary of Test Results

Project Name: Plainwell Mill Banks Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-10
Date Collected: 02/13/08
Sample Type: Soil

Date Extracted: 02/15/08 Lab Sample Number: A080713-03
Date Analyzed: 02/15/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1
Solids, Total: 50.3%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	0.23
PCB-1248	0.10	1.3
PCB-1254	0.10	1.2
PCB-1260	0.10	0.32
TCMX (Surr)		119%
DCB (Surr)		129%

Method Reference: Modified 8081

WI Lab Certification #113289110

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Approved by:

Date:

PCBs

Summary of Test Results

Project Name: Plainwell Mill Banks Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-11
Date Collected: 02/13/08
Sample Type: Soil

Date Extracted: 02/15/08 Lab Sample Number: A080713-04
Date Analyzed: 02/15/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1
Solids, Total: 58.7%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	< 0.10
PCB-1248	0.10	0.31
PCB-1254	0.10	0.76
PCB-1260	0.10	< 0.10
TCMX (Surr)		120%
DCB (Surr)		128%

Method Reference: Modified 8081

WI Lab Certification #113289110

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Approved by:

Date:

PCBs
Summary of Test Results

Project Name: Plainwell Mill Banks Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-12
Date Collected: 02/13/08
Sample Type: Soil

Date Extracted: 02/15/08 Lab Sample Number: A080713-05
Date Analyzed: 02/15/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1
Solids, Total: 65.5%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	0.25
PCB-1248	0.10	0.25
PCB-1254	0.10	0.26
PCB-1260	0.10	< 0.10
TCMX (Surr)		105%
DCB (Surr)		115%

Method Reference: Modified 8081

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Date:

PCBs

Summary of Test Results

Project Name: Plainwell Mill Banks Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PEX-13
Date Collected: 02/13/08
Sample Type: Soil

Date Extracted: 02/15/08 Lab Sample Number: A080713-06
Date Analyzed: 02/15/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1, 10
Solids, Total: 67.1%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	8.1
PCB-1248	0.10	2.6
PCB-1254	0.10	1.0
PCB-1260	0.10	0.31
TCMX (Surr)		84.8%
DCB (Surr)		110%

Method Reference: Modified 8081

WI Lab Certification #113289110

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Date:

PCBs
Summary of Test Results

Project Name: Plainwell Mill Banks Project Number: 5130.04
Project Location: Plainwell, Michigan
Sample Description: PWX-14
Date Collected: 02/13/08
Sample Type: Soil

Date Extracted: 02/15/08 Lab Sample Number: A080713-07
Date Analyzed: 02/15/08
Concentration: mg/kg, dry weight
Sample Weight (g): 5.0
Dilution Factor: 1
Solids, Total: 44.9%

<u>Compound</u>	<u>Reporting Limit</u>	<u>Sample Result</u>
PCB-1016	0.10	< 0.10
PCB-1221	0.10	< 0.10
PCB-1232	0.10	< 0.10
PCB-1242	0.10	< 0.10
PCB-1248	0.10	0.39
PCB-1254	0.10	0.41
PCB-1260	0.10	< 0.10
TCMX (Surr)		111%
DCB (Surr)		116%

Method Reference: Modified 8081

WI Lab Certification #113289110

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Appendix G

Zone D Clay and Armor Description

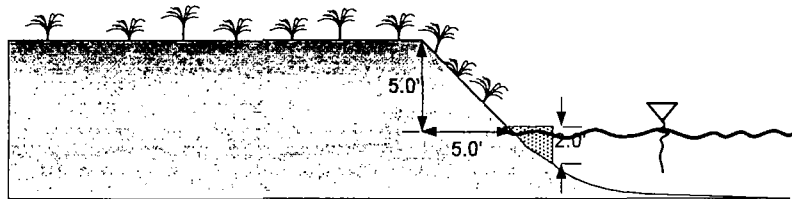
Appendix B - Zone D Clay Fill and Armor Construction

Excavation on 2/5/2008 encountered concrete rubble material and rip rap along Zone D within a silt curtain containment area. Once debris was penetrated, a slight oily sheen began to appear on the water surface (mid afternoon). Excavation halted and floating oil booms were installed around the area to minimize release to river. Additional clay fill material was ordered and delivered to the site the same afternoon. A sample of the clay material was submitted for analysis of volatile organic compounds (VOCs), semivolatile organic compounds (SVOC), polychlorinated biphenyls (PCBs), Total Petroleum Hydrocarbons, RCRA metals, and Pesticides. Results of the analysis are attached.

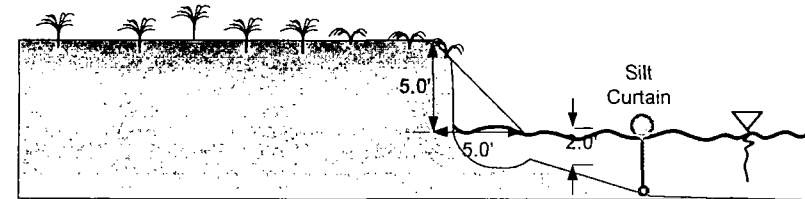
Clay fill material was placed using the backhoe bucket by starting from the base of the excavation and moving up the river bank above the river/bank interface. Since much of the material was located under the water, compaction was performed by using the back of the backhoe bucket. The material was placed in lifts of approximately one foot moving up the bank to achieve a grade angle similar to pre-excavation activities. Final vertical thickness varied from 0-0.5 feet at the outside edge of the excavation to approximately 5 feet near the bank. Once clay material was placed, no visible sheen was present on the water surface or during subsequent site visits.

The design specified a stone (D50 of ≥ 6 inches) rip rap along the entire shoreline. Riprap with a D30 of 2 inches will withstand the erosive forces produced along the shoreline at a velocity of 5-6 fps. The larger stone size was specified to address the potential greater stresses on the riprap caused by ice and debris. The river run stone was placed from an elevation approximately 2 feet below river level to 2 feet above the river/bank interface. Details are shown on the attached Figure B-1.

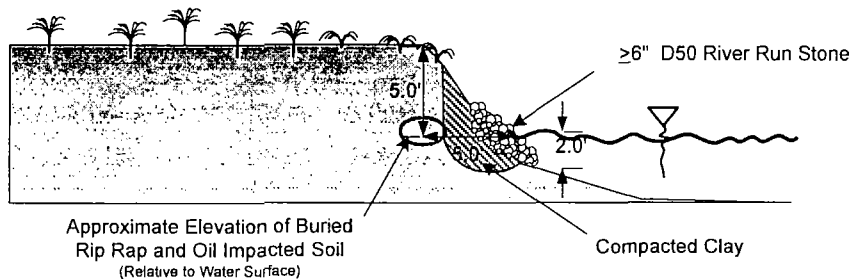
1 - ZONE D PRIOR TO EXCAVATION



2. ZONE D AFTER EXCAVATION COMPLETE



3. ZONE D AFTER CLAY PLACEMENT AND ARMORING



Clay Selection Criteria:

1. A USCS classification of SC, CH, CL/ML, or ML
2. A saturated hydraulic conductivity of 1×10^{-7} cm/s or less, when compacted to 90% Modified or 95% Standard Proctor Density

Due to site conditions requiring placement of clay into the saturated zone, typical compaction of the material was not possible. Therefore, the clay was compacted in place using the mechanical excavator immediately after placement.

LEGEND

 Approximate Residuals Location

Typical Zone D Cross Section

NOTE:

1. Bank slopes vary along this reach from location to location.
2. Regrade bank slopes as necessary where bank is disturbed.
3. Residuals estimated to be from 0 to 4 feet in width.
4. The 6-inch D50 river-run stone has a nominal design velocity of 8.5 fps, which will improve stability.

PROJECT:		WEYERHAEUSER COMPANY PLAINWELL MILL BANKS EMERGENCY ACTION	
SHEET TITLE:		DESIGN FOR ZONE D BANK RECONFIGURATION	
DATE: SEPTEMBER 2008		FIGURE B-1	
DRAWN BY: NCW			
RMT			

Attached
Zone D Soil Sample Descriptions

Table B-1 - Description of Samples Collected Along Zone D

Sample Location	Date	Sample Description	PCB Concentration (mg/kg)
PM-SD-35	1/31/2008	Fine Black Sand, Fuel Oil Odor	7.04
PM-SD-36	1/31/2008	Fine Black Sand, Some Silt, Fuel Oil Odor	24.3
PM-SD-37	1/31/2008	Fine Black Sand, Gray Silt, Very Slight Odor	12.4
PM-SD-38	1/31/2008	Black Gravel, Gray/brown Medium Sand, Gray Silt, Slight Odor	0.85
PM-SD-39	1/31/2008	Black Sand and Gravel, Silt, Slight Odor	1.78
PM-SD-40	1/31/2008	Black Sand and Gravel, Gray Silt, Very slight Odor	27.3
PM-SD-41	1/31/2008	Black Sand and Gravel, Gray Silt, No Odor	513.
PEX-1	2/7/2008	Black Fine to Coarse Sand with Gravel and Trace Residuals, Petroleum Odor	288.
PEX-2	2/7/2008	Coarse Sand with Gravel, Gray to Brown, with Trace Fine Gray Silt, No Odor	23.6
PEX-3	2/7/2008	Brownish Gray Sand and Gravel, No Odor	0.26
PEX-4	2/7/2008	Brownish Gray Sand and Gravel with Cobbles, No Odor	2.1

**Attached
Laboratory
Analysis for Clay Fill**

February 25, 2008

RMT, Inc. - Grand Rapids Office
Attn: Jennifer Overvoorde
2025 E. Beltline Ave., Suite 402
Grand Rapids, MI 49546

Project: Plainwell Mill

Dear Jennifer Overvoorde,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

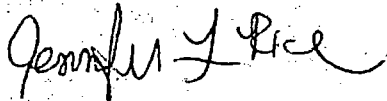
Work Order	Received	Description
0802068	02/06/2008	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC); any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



Jennifer L. Rice
Project Chemist

Enclosures(s)

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **PM - Fill - D**
 Lab Sample ID: **0802068-01**
 Matrix: Soil
 Unit: mg/kg dry
 Dilution Factor: 1
 QC Batch: 0801287
 Percent Solids: 88

Work Order: **0802068**
 Description: Laboratory Services
 Sampled: 02/05/08 18:29
 Sampled By: E. Vincke
 Received: 02/06/08 14:00
 Prepared: 02/08/08 By: ASC
 Date Analyzed: 02/14/08 By: JMK
 Analytical Batch: 8021544

Extractable Petroleum Hydrocarbons by EPA Method 8015B (Modified)

CAS Number	Analyte	Analytical Result	RL
	DRO - 8015B (C10-C28)	<7.6	7.6
Surrogates	% Recovery	Control Limits	
<i>o</i> -Terphenyl	47	44-137	

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **PM - Fill - D**
 Lab Sample ID: **0802068-01**
 Matrix: Soil
 Unit: mg/kg dry
 Dilution Factor: 1
 QC Batch: 0801715
 Percent Solids: 88

Work Order: **0802068**
 Description: Laboratory Services
 Sampled: 02/05/08 18:29
 Sampled By: E. Vincke
 Received: 02/06/08 14:00
 Prepared: 02/14/08 By: LEW
 Date Analyzed: 02/14/08 By: LEW
 Analytical Batch: 8021508

Volatile Petroleum Hydrocarbons by EPA Method 8015B (Modified)

CAS Number	Analyte	Analytical Result	RL
	GRO - 8015B (C6-C10)	<5.7	5.7
Surrogates	% Recovery	Control Limits	
<i>aaa-Trifluorotoluene</i>	96	76-113	

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **PM - Fill - D**
 Lab Sample ID: **0802068-01**
 Matrix: Soil
 Unit: mg/kg dry
 Dilution Factor: 1
 QC Batch: 0801710
 Percent Solids: 88

Work Order: **0802068**
 Description: Laboratory Services
 Sampled: 02/05/08 18:29
 Sampled By: E. Vincke
 Received: 02/06/08 14:00
 Prepared: 02/15/08 By: BJH
 Date Analyzed: 02/18/08 By: JMK
 Analytical Batch: 8021934

Polychlorinated Biphenyls (PCBs) by EPA Method 8082

CAS Number	Analyte	Analytical Result	RL
12674-11-2	PCB-1016	<0.37	0.37
11104-28-2	PCB-1221	<0.37	0.37
11141-16-5	PCB-1232	<0.37	0.37
53469-21-9	PCB-1242	<0.37	0.37
12672-29-6	PCB-1248	<0.37	0.37
11097-69-1	PCB-1254	<0.37	0.37
11096-82-5	PCB-1260	<0.37	0.37
Surrogates		% Recovery	Control Limits
<i>Decachlorobiphenyl</i>		91	36-136
<i>Tetrachloro-m-xylene</i>		89	46-120

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **PM - Fill - D**
 Lab Sample ID: **0802068-01**
 Matrix: Soil
 Unit: mg/kg dry
 Dilution Factor: 1
 QC Batch: 0801259
 Percent Solids: 88

Work Order: **0802068**
 Description: Laboratory Services
 Sampled: 02/05/08 18:29
 Sampled By: E. Vincke
 Received: 02/06/08 14:00
 Prepared: 02/15/08 By: BJH
 Date Analyzed: 02/15/08 By: DJM
 Analytical Batch: 8021833

*Organochlorine Pesticides by EPA Method 8081A

CAS Number	Analyte	Analytical Result	RL
319-84-6	alpha-BHC	<0.011	0.011
319-85-7	beta-BHC	<0.023	0.023
58-89-9	gamma-BHC (Lindane)	<0.023	0.023
319-86-8	delta-BHC	<0.023	0.023
5103-71-9	alpha-Chlordane	<0.034	0.034
5103-74-2	gamma-Chlordane	<0.034	0.034
72-54-8	4,4'-DDD	<0.023	0.023
72-55-9	4,4'-DDE	<0.023	0.023
50-29-3	4,4'-DDT	<0.023	0.023
309-00-2	Aldrin	<0.023	0.023
60-57-1	Dieldrin	<0.023	0.023
959-98-8	Endosulfan I	<0.023	0.023
33213-65-9	Endosulfan II	<0.023	0.023
1031-07-8	Endosulfan Sulfate	<0.023	0.023
72-20-8	Endrin	<0.023	0.023
7421-93-4	Endrin Aldehyde	<0.023	0.023
53494-70-5	Endrin Ketone	<0.023	0.023
76-44-8	Heptachlor	<0.023	0.023
1024-57-3	Heptachlor Epoxide	<0.023	0.023
72-43-5	Methoxychlor	<0.057	0.057
8001-35-2	Toxaphene	<0.19	0.19
Surrogates	% Recovery	Control Limits	
<i>Tetrachloro-m-xylene</i>	84	63-125	
<i>Decachlorobiphenyl</i>	89	58-128	

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **PM - Fill - D**
 Lab Sample ID: **0802068-01**
 Matrix: Soil
 Unit: mg/kg dry
 Dilution Factor: 1
 QC Batch: 0801494
 Percent Solids: 88

Work Order: **0802068**
 Description: Laboratory Services
 Sampled: 02/05/08 18:29
 Sampled By: E. Vincke
 Received: 02/06/08 14:00
 Prepared: 02/11/08 By: JDM
 Date Analyzed: 02/11/08 By: JDM
 Analytical Batch: 8021211

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<1.1	1.1
107-13-1	Acrylonitrile	<0.11	0.11
71-43-2	Benzene	<0.057	0.057
108-86-1	Bromobenzene	<0.11	0.11
74-97-5	Bromochloromethane	<0.11	0.11
75-27-4	Bromodichloromethane	<0.11	0.11
75-25-2	Bromoform	<0.11	0.11
74-83-9	Bromomethane	<0.23	0.23
104-51-8	n-Butylbenzene	<0.057	0.057
135-98-8	sec-Butylbenzene	<0.057	0.057
98-06-6	tert-Butylbenzene	<0.057	0.057
75-15-0	Carbon Disulfide	<0.28	0.28
56-23-5	Carbon Tetrachloride	<0.057	0.057
108-90-7	Chlorobenzene	<0.057	0.057
75-00-3	Chloroethane	<0.28	0.28
67-66-3	Chloroform	<0.057	0.057
74-87-3	Chloromethane	<0.28	0.28
96-12-8	1,2-Dibromo-3-chloropropane	<0.057	0.057
124-48-1	Dibromochloromethane	<0.11	0.11
106-93-4	1,2-Dibromoethane	<0.057	0.057
74-95-3	Dibromomethane	<0.28	0.28
110-57-6	trans-1,4-Dichloro-2-butene	<0.057	0.057
95-50-1	1,2-Dichlorobenzene	<0.11	0.11
541-73-1	1,3-Dichlorobenzene	<0.11	0.11
106-46-7	1,4-Dichlorobenzene	<0.11	0.11
75-71-8	Dichlorodifluoromethane	<0.28	0.28
75-34-3	1,1-Dichloroethane	<0.057	0.057
107-06-2	1,2-Dichloroethane	<0.057	0.057
75-35-4	1,1-Dichloroethene	<0.057	0.057

Continued on next page

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **PM - Fill - D**
 Lab Sample ID: **0802068-01**
 Matrix: Soil
 Unit: mg/kg dry
 Dilution Factor: 1
 QC Batch: 0801494
 Percent Solids: 88

Work Order: **0802068**
 Description: Laboratory Services
 Sampled: 02/05/08 18:29
 Sampled By: E. Vincke
 Received: 02/06/08 14:00
 Prepared: 02/11/08 By: JDM
 Date Analyzed: 02/11/08 By: JDM
 Analytical Batch: 8021211

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
156-59-2	cis-1,2-Dichloroethene	<0.057	0.057
156-60-5	trans-1,2-Dichloroethene	<0.057	0.057
78-87-5	1,2-Dichloropropane	<0.057	0.057
10061-01-5	cis-1,3-Dichloropropene	<0.057	0.057
10061-02-6	trans-1,3-Dichloropropene	<0.057	0.057
100-41-4	Ethylbenzene	<0.057	0.057
60-29-7	Ethyl Ether	<0.23	0.23
591-78-6	2-Hexanone	<2.8	2.8
74-88-4	Iodomethane	<0.11	0.11
98-82-8	Isopropylbenzene	<0.28	0.28
99-87-6	4-Isopropyltoluene	<0.11	0.11
1634-04-4	Methyl tert-Butyl Ether	<0.28	0.28
75-09-2	Methylene Chloride	0.32	0.11
78-93-3	2-Butanone (MEK)	<0.85	0.85
91-57-6	2-Methylnaphthalene	<0.37	0.37
108-10-1	4-Methyl-2-pentanone (MIBK)	<2.8	2.8
91-20-3	Naphthalene	<0.37	0.37
103-65-1	n-Propylbenzene	<0.11	0.11
100-42-5	Styrene	<0.057	0.057
630-20-6	1,1,1,2-Tetrachloroethane	<0.11	0.11
79-34-5	1,1,2,2-Tetrachloroethane	<0.057	0.057
127-18-4	Tetrachloroethene	<0.057	0.057
109-99-9	Tetrahydrofuran	<1.1	1.1
108-88-3	Toluene	<0.11	0.11
87-61-6	1,2,3-Trichlorobenzene	<0.37	0.37
120-82-1	1,2,4-Trichlorobenzene	<0.37	0.37
71-55-6	1,1,1-Trichloroethane	<0.057	0.057
79-00-5	1,1,2-Trichloroethane	<0.057	0.057
79-01-6	Trichloroethene	<0.057	0.057
75-69-4	Trichlorofluoromethane	<0.11	0.11
96-18-4	1,2,3-Trichloropropane	<0.11	0.11

Continued on next page

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **PM - Fill - D**
 Lab Sample ID: **0802068-01**
 Matrix: Soil
 Unit: mg/kg dry
 Dilution Factor: 1
 QC Batch: 0801494
 Percent Solids: 88

Work Order: **0802068**
 Description: Laboratory Services
 Sampled: 02/05/08 18:29
 Sampled By: E. Vincke
 Received: 02/06/08 14:00
 Prepared: 02/11/08 By: JDM
 Date Analyzed: 02/11/08 By: JDM
 Analytical Batch: 8021211

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
95-63-6	1,2,4-Trimethylbenzene	<0.11	0.11
108-67-8	1,3,5-Trimethylbenzene	<0.11	0.11
75-01-4	Vinyl Chloride	<0.045	0.045
136777-61-2	Xylene, Meta + Para	<0.11	0.11
95-47-6	Xylene, Ortho	<0.057	0.057
Surrogates		% Recovery	Control Limits
<i>Dibromofluoromethane</i>		113	78-124
<i>1,2-Dichloroethane-d4</i>		110	80-123
<i>Toluene-d8</i>		101	84-113
<i>4-Bromofluorobenzene</i>		100	79-120

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **PM - Fill - D**
 Lab Sample ID: **0802068-01**
 Matrix: Soil
 Unit: mg/kg dry
 Dilution Factor: 1
 QC Batch: 0801236
 Percent Solids: 88

Work Order: **0802068**
 Description: Laboratory Services
 Sampled: 02/05/08 18:29
 Sampled By: E. Vincke
 Received: 02/06/08 14:00
 Prepared: 02/11/08 By: ASC
 Date Analyzed: 02/12/08 By: DMC
 Analytical Batch: 8021276

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	RL
83-32-9	Acenaphthene	<0.37	0.37
208-96-8	Acenaphthylene	<0.37	0.37
120-12-7	Anthracene	<0.37	0.37
56-55-3	Benzo(a)anthracene	<0.37	0.37
50-32-8	Benzo(a)pyrene	<0.37	0.37
205-99-2	Benzo(b)fluoranthene	<0.37	0.37
191-24-2	Benzo(g,h,i)perylene	<0.37	0.37
207-08-9	Benzo(k)fluoranthene	<0.37	0.37
101-55-3	4-Bromophenyl Phenyl Ether	<0.37	0.37
85-68-7	Butyl Benzyl Phthalate	<0.37	0.37
86-74-8	Carbazole	<0.37	0.37
59-50-7	4-Chloro-3-methylphenol	<0.32	0.32
111-91-1	Bis(2-chloroethoxy)methane	<0.37	0.37
111-44-4	Bis(2-chloroethyl) Ether	<0.11	0.11
108-60-1	Bis(2-chloroisopropyl) Ether	<0.37	0.37
117-81-7	Bis(2-ethylhexyl) Phthalate	<0.37	0.37
91-58-7	2-Chloronaphthalene	<0.37	0.37
95-57-8	2-Chlorophenol	<0.37	0.37
7005-72-3	4-Chlorophenyl Phenyl Ether	<0.37	0.37
218-01-9	Chrysene	<0.37	0.37
53-70-3	Dibenz(a,h)anthracene	<0.37	0.37
132-64-9	Dibenzofuran	<0.37	0.37
84-74-2	Di-n-butyl Phthalate	<0.37	0.37
95-50-1	1,2-Dichlorobenzene	<0.37	0.37
541-73-1	1,3-Dichlorobenzene	<0.37	0.37
106-46-7	1,4-Dichlorobenzene	<0.37	0.37
120-83-2	2,4-Dichlorophenol	<0.37	0.37
84-66-2	Diethyl Phthalate	<0.37	0.37
105-67-9	2,4-Dimethylphenol	<0.37	0.37

Continued on next page

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **PM - Fill - D**
 Lab Sample ID: **0802068-01**
 Matrix: Soil
 Unit: mg/kg dry
 Dilution Factor: 1
 QC Batch: 0801236
 Percent Solids: 88

Work Order: **0802068**
 Description: Laboratory Services
 Sampled: 02/05/08 18:29
 Sampled By: E. Vincke
 Received: 02/06/08 14:00
 Prepared: 02/11/08 By: ASC
 Date Analyzed: 02/12/08 By: DMC
 Analytical Batch: 8021276

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	RL
131-11-3	Dimethyl Phthalate	<0.37	0.37
534-52-1	4,6-Dinitro-2-methylphenol	<0.94	0.94
51-28-5	2,4-Dinitrophenol	<0.94	0.94
121-14-2	2,4-Dinitrotoluene	<0.37	0.37
606-20-2	2,6-Dinitrotoluene	<0.37	0.37
117-84-0	Di-n-octyl Phthalate	<0.37	0.37
122-66-7	1,2-Diphenylhydrazine	<0.37	0.37
206-44-0	Fluoranthene	<0.37	0.37
86-73-7	Fluorene	<0.37	0.37
118-74-1	Hexachlorobenzene	<0.37	0.37
87-68-3	Hexachlorobutadiene	<0.057	0.057
77-47-4	Hexachlorocyclopentadiene	<0.37	0.37
67-72-1	Hexachloroethane	<0.34	0.34
193-39-5	Indeno(1,2,3-cd)pyrene	<0.37	0.37
78-59-1	Isophorone	<0.37	0.37
91-57-6	2-Methylnaphthalene	<0.37	0.37
95-48-7	2-Methylphenol	<0.37	0.37
108-39-4	3+4-Methylphenol	<0.37	0.37
91-20-3	Naphthalene	<0.37	0.37
100-01-6	4-Nitroaniline	<0.37	0.37
99-09-2	3-Nitroaniline	<0.94	0.94
88-74-4	2-Nitroaniline	<0.94	0.94
98-95-3	Nitrobenzene	<0.37	0.37
100-02-7	4-Nitrophenol	<0.94	0.94
88-75-5	2-Nitrophenol	<0.37	0.37
62-75-9	N-Nitroso-dimethylamine	<0.37	0.37
86-30-6	N-Nitroso-diphenylamine	<0.37	0.37
621-64-7	N-Nitroso-di-n-propylamine	<0.37	0.37
87-86-5	Pentachlorophenol	<0.023	0.023
85-01-8	Phenanthrene	<0.37	0.37
108-95-2	Phenol	<0.37	0.37

Continued on next page

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **PM - Fill - D**
 Lab Sample ID: **0802068-01**
 Matrix: Soil
 Unit: mg/kg dry
 Dilution Factor: 1
 QC Batch: 0801236
 Percent Solids: 88

Work Order: **0802068**
 Description: Laboratory Services
 Sampled: 02/05/08 18:29
 Sampled By: E. Vincke
 Received: 02/06/08 14:00
 Prepared: 02/11/08 By: ASC
 Date Analyzed: 02/12/08 By: DMC
 Analytical Batch: 8021276

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

CAS Number	Analyte	Analytical Result	RL
129-00-0	Pyrene	<0.37	0.37
120-82-1	1,2,4-Trichlorobenzene	<0.37	0.37
95-95-4	2,4,5-Trichlorophenol	<0.37	0.37
88-06-2	2,4,6-Trichlorophenol	<0.37	0.37
Surrogates		% Recovery	Control Limits
	<i>2-Fluorophenol</i>	67	40-105
	<i>Phenol-d6</i>	71	44-104
	<i>Nitrobenzene-d5</i>	87	47-118
	<i>2-Fluorobiphenyl</i>	78	48-119
	<i>2,4,6-Tribromophenol</i>	80	36-120
	<i>o-Terphenyl</i>	76	45-130

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **PM - Fill - D**
 Lab Sample ID: **0802068-01**
 Matrix: Soil
 Percent Solids:

Work Order: **0802068**
 Description: Laboratory Services
 Sampled: 02/05/08 18:29
 Sampled By: E. Vincke
 Received: 02/06/08 14:00

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
Arsenic	2.0	0.10	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801356
Barium	36	1.0	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801356
Cadmium	<0.20	0.20	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801356
Chromium	6.6	2.0	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801356
Lead	6.6	1.0	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801356
Mercury	<0.050	0.050	mg/kg dry wt.	1	USEPA-7471A	02/12/08	DSC	0801411
Selenium	<0.20	0.20	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801356
r	<0.10	0.10	mg/kg dry wt.	1	USEPA-6020A	02/12/08	KLV	0801356

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
Project: Plainwell Mill
Client Sample ID: **PM - Fill - D**
Lab Sample ID: **0802068-01**
Matrix: Soil

Work Order: **0802068**
Description: Laboratory Services
Sampled: 02/05/08 18:29
Sampled By: E. Vincke
Received: 02/06/08 14:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	Unit	Dilution Factor	Method	Date Analyzed	By	QC Batch
SGT-HEM; Nonpolar Material	<450	450	mg/kg dry	1	USEPA-9071B	02/11/08	CLB	0801453
Percent Solids	88	0.1	%	1	USEPA-3550B	02/08/08	KNC	0801361

ANALYTICAL REPORT

Client: **RMT, Inc. - Grand Rapids Office**
 Project: Plainwell Mill
 Client Sample ID: **PM - Fill - D**
 Lab Sample ID: **0802068-01RE1**
 Matrix: Soil
 Unit: mg/kg dry
 Dilution Factor: 1
 QC Batch: 0801259
 Percent Solids: 88

Work Order: **0802068**
 Description: Laboratory Services
 Sampled: 02/05/08 18:29
 Sampled By: E. Vincke
 Received: 02/06/08 14:00
 Prepared: 02/19/08 By: ASC
 Date Analyzed: 02/22/08 By: DJM
 Analytical Batch: 8022232

Organochlorine Pesticides by EPA Method 8081A

CAS Number	Analyte	Analytical Result	RL
319-84-6	alpha-BHC	<0.011	0.011
319-85-7	beta-BHC	<0.023	0.023
58-89-9	gamma-BHC (Lindane)	<0.023	0.023
319-86-8	delta-BHC	<0.023	0.023
5103-71-9	alpha-Chlordane	<0.034	0.034
5103-74-2	gamma-Chlordane	<0.034	0.034
72-54-8	4,4'-DDD	<0.023	0.023
72-55-9	4,4'-DDE	<0.023	0.023
50-29-3	4,4'-DDT	<0.023	0.023
309-00-2	Aldrin	<0.023	0.023
60-57-1	Dieldrin	<0.023	0.023
959-98-8	Endosulfan I	<0.023	0.023
33213-65-9	Endosulfan II	<0.023	0.023
1031-07-8	Endosulfan Sulfate	<0.023	0.023
72-20-8	Endrin	<0.023	0.023
7421-93-4	Endrin Aldehyde	<0.023	0.023
53494-70-5	Endrin Ketone	<0.023	0.023
76-44-8	Heptachlor	<0.023	0.023
1024-57-3	Heptachlor Epoxide	<0.023	0.023
72-43-5	Methoxychlor	<0.057	0.057
8001-35-2	Toxaphene	<0.19	0.19
Surrogates	% Recovery	Control Limits	
<i>Tetrachloro-m-xylene</i>	93	63-125	
<i>Decachlorobiphenyl</i>	87	58-128	

QUALITY CONTROL REPORT

Extractable Petroleum Hydrocarbons by EPA Method 8015B (Modified)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0801287 3550B Sonication Extraction/USEPA-8015B								
Method Blank						Analyzed:	02/14/2008	By: JMK
Unit: mg/kg wet						Analytical Batch:	8021544	
DRO - 8015B (C10-C28)			<6.7					6.7
Surrogates								
<i>o</i> -Terphenyl				48	44-137			
Laboratory Control Sample						Analyzed:	02/14/2008	By: JMK
Unit: mg/kg wet						Analytical Batch:	8021544	
DRO - 8015B (C10-C28)		33.3	29.5	89	44-135			6.7
Surrogates								
<i>o</i> -Terphenyl				58	44-137			

QUALITY CONTROL REPORT

Volatile Petroleum Hydrocarbons by EPA Method 8015B (Modified)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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QC Batch: 0801715 5030B Aqueous Purge & Trap/USEPA-8015B

Method Blank						Analyzed:	02/14/2008	By: LEW
Unit: mg/kg wet						Analytical Batch:	8021508	

GRO - 8015B (C6-C10)			<5.0					5.0
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Method Blank						Analyzed:	02/14/2008	By: LEW
Unit: ug/L						Analytical Batch:	8021508	

Surrogates

aaa-Trifluorotoluene				95	76-113			
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Laboratory Control Sample						Analyzed:	02/14/2008	By: LEW
Unit: mg/kg wet						Analytical Batch:	8021508	

GRO - 8015B (C6-C10)		20.0	20.4	102	72-118			5.0
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Laboratory Control Sample						Analyzed:	02/14/2008	By: LEW
Unit: ug/L						Analytical Batch:	8021508	

Surrogates

aaa-Trifluorotoluene				102	76-113			
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Matrix Spike 0802068-01 PM - Fill - D						Analyzed:	02/14/2008	By: LEW
Unit: mg/kg dry						Analytical Batch:	8021508	

GRO - 8015B (C6-C10)	<5.7	22.6	26.1	115	30-168			5.7
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Matrix Spike 0802068-01 PM - Fill - D						Analyzed:	02/14/2008	By: LEW
Unit: ug/L						Analytical Batch:	8021508	

Surrogates

aaa-Trifluorotoluene				103	76-113			
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Matrix Spike Duplicate 0802068-01 PM - Fill - D						Analyzed:	02/14/2008	By: LEW
Unit: mg/kg dry						Analytical Batch:	8021508	

GRO - 8015B (C6-C10)	<5.7	22.6	26.3	116	30-168	0.6	20	5.7
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Matrix Spike Duplicate 0802068-01 PM - Fill - D						Analyzed:	02/14/2008	By: LEW
Unit: ug/L						Analytical Batch:	8021508	

Surrogates

aaa-Trifluorotoluene				102	76-113			
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QUALITY CONTROL REPORT

Polychlorinated Biphenyls (PCBs) by EPA Method 8082

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0801710 3550B Sonication Extraction/USEPA-8082								
Method Blank					Analyzed:		02/18/2008	By: JMK
Unit: mg/kg wet					Analytical Batch:		8021934	
PCB-1016			<0.33					0.33
PCB-1221			<0.33					0.33
PCB-1232			<0.33					0.33
PCB-1242			<0.33					0.33
PCB-1248			<0.33					0.33
PCB-1254			<0.33					0.33
PCB-1260			<0.33					0.33
Surrogates								
Decachlorobiphenyl				102	36-136			
Tetrachloro-m-xylene				98	46-120			
Laboratory Control Sample					Analyzed:		02/18/2008	By: JMK
Unit: mg/kg wet					Analytical Batch:		8021934	
PCB-1016		0.167	0.168	101	72-117			0.33
PCB-1260		0.167	0.187	112	77-123			0.33
Surrogates								
Decachlorobiphenyl				101	36-136			
Tetrachloro-m-xylene				100	46-120			
Matrix Spike 0802068-01 PM - Fill - D					Analyzed:		02/18/2008	By: JMK
Unit: mg/kg dry					Analytical Batch:		8021934	
PCB-1016	<0.37	0.188	0.184	98	48-126			0.37
PCB-1260	<0.37	0.188	0.206	109	52-136			0.37
Surrogates								
Decachlorobiphenyl				97	36-136			
Tetrachloro-m-xylene				92	46-120			
Matrix Spike Duplicate 0802068-01 PM - Fill - D					Analyzed:		02/18/2008	By: JMK
Unit: mg/kg dry					Analytical Batch:		8021934	
PCB-1016	<0.37	0.188	0.188	100	48-126	2	20	0.37
PCB-1260	<0.37	0.188	0.207	110	52-136	0.5	20	0.37
Surrogates								
Decachlorobiphenyl				94	36-136			
Tetrachloro-m-xylene				92	46-120			

QUALITY CONTROL REPORT

Organochlorine Pesticides by EPA Method 8081A

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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QC Batch: 0801259 3550B Sonication Extraction/USEPA-8081A

Method Blank

Unit: mg/kg wet

Analyzed: 02/15/2008 By: DJM

Analytical Batch: 8021833

alpha-BHC	<0.010	0.010
beta-BHC	<0.020	0.020
gamma-BHC (Lindane)	<0.020	0.020
delta-BHC	<0.020	0.020
alpha-Chlordane	<0.030	0.030
gamma-Chlordane	<0.030	0.030
4,4'-DDD	<0.020	0.020
4,4'-DDE	<0.020	0.020
4,4'-DDT	<0.020	0.020
Aldrin	<0.020	0.020
Dieldrin	<0.020	0.020
sulfan I	<0.020	0.020
sulfan II	<0.020	0.020
sulfan Sulfate	<0.020	0.020
in	<0.020	0.020
Endrin Aldehyde	<0.020	0.020
Endrin Ketone	<0.020	0.020
Heptachlor	<0.020	0.020
Heptachlor Epoxide	<0.020	0.020
Methoxychlor	<0.050	0.050
Toxaphene	<0.17	0.17

Surrogates

<i>Tetrachloro-m-xylene</i>	92	63-125
<i>Decachlorobiphenyl</i>	93	58-128

Method Blank

Unit: mg/kg wet

Analyzed: 02/22/2008 By: DJM

Analytical Batch: 8022232

alpha-BHC	<0.010	0.010
beta-BHC	<0.020	0.020
gamma-BHC (Lindane)	<0.020	0.020
delta-BHC	<0.020	0.020
alpha-Chlordane	<0.030	0.030
gamma-Chlordane	<0.030	0.030
4,4'-DDD	<0.020	0.020
4,4'-DDE	<0.020	0.020
4,4'-DDT	<0.020	0.020

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QUALITY CONTROL REPORT

Organochlorine Pesticides by EPA Method 8081A (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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QC Batch: 0801259 (Continued) 3550B Sonication Extraction/USEPA-8081A

Method Blank (Continued)

Unit: mg/kg wet

Analyzed: 02/22/2008 By: DJM

Analytical Batch: 8022232

Aldrin		<0.020					0.020
Dieldrin		<0.020					0.020
Endosulfan I		<0.020					0.020
Endosulfan II		<0.020					0.020
Endosulfan Sulfate		<0.020					0.020
Endrin		<0.020					0.020
Endrin Aldehyde		<0.020					0.020
Endrin Ketone		<0.020					0.020
Heptachlor		<0.020					0.020
Heptachlor Epoxide		<0.020					0.020
Methoxychlor		<0.050					0.050
Toxaphene		<0.17					0.17

Surrogates

<i>Tetrachloro-m-xylene</i>	92	63-125
<i>Decachlorobiphenyl</i>	92	58-128

Laboratory Control Sample

Unit: mg/kg wet

Analyzed: 02/15/2008 By: DJM

Analytical Batch: 8021833

*alpha-BHC	0.0133	0.00973	73	78-131		0.010
*beta-BHC	0.0133	0.0102	77	84-138		0.020
*gamma-BHC (Lindane)	0.0133	0.0102	77	80-135		0.020
*delta-BHC	0.0133	0.0103	77	80-136		0.020
*alpha-Chlordane	0.0133	0.0102	76	80-138		0.030
*gamma-Chlordane	0.0133	0.00980	74	79-137		0.030
4,4'-DDD	0.0133	0.00980	74	74-141		0.020
*4,4'-DDE	0.0133	0.00960	72	78-138		0.020
*4,4'-DDT	0.0133	0.00953	72	74-141		0.020
*Aldrin	0.0133	0.0102	77	80-135		0.020
*Dieldrin	0.0133	0.0100	75	79-139		0.020
Endosulfan I	0.0133	0.00893	67	58-131		0.020
Endosulfan II	0.0133	0.00947	71	62-137		0.020
Endosulfan Sulfate	0.0133	0.0105	79	79-141		0.020
Endrin	0.0133	0.0103	78	67-151		0.020
Endrin Aldehyde	0.0133	0.0102	77	68-132		0.020
*Endrin Ketone	0.0133	0.0101	76	78-140		0.020
*Heptachlor	0.0133	0.0103	77	82-135		0.020

Continued on next page

*See Statement of Data Qualifications

QUALITY CONTROL REPORT

Organochlorine Pesticides by EPA Method 8081A (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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QC Batch: 0801259 (Continued) 3550B Sonication Extraction/USEPA-8081A

Laboratory Control Sample (Continued)

Unit: mg/kg wet

Analyzed: 02/15/2008 By: DJM
Analytical Batch: 8021833

*Heptachlor Epoxide	0.0133	0.00990	74	81-137	0.020
*Methoxychlor	0.0133	0.0100	75	76-142	0.050

Surrogates

<i>Tetrachloro-m-xylene</i>	68	63-125
<i>Decachlorobiphenyl</i>	67	58-128

Laboratory Control Sample

Unit: mg/kg wet

Analyzed: 02/22/2008 By: DJM
Analytical Batch: 8022232

alpha-BHC	0.0133	0.0146	110	78-131	0.010
beta-BHC	0.0133	0.0142	106	84-138	0.020
gamma-BHC (Lindane)	0.0133	0.0149	112	80-135	0.020
delta-BHC	0.0133	0.0144	108	80-136	0.020
alpha-Chlordane	0.0133	0.0140	105	80-138	0.030
gamma-Chlordane	0.0133	0.0141	106	79-137	0.030
4,4'-DDD	0.0133	0.0141	106	74-141	0.020
4,4'-DDE	0.0133	0.0143	107	78-138	0.020
4,4'-DDT	0.0133	0.0138	104	74-141	0.020
Aldrin	0.0133	0.0138	104	80-135	0.020
Dieldrin	0.0133	0.0145	109	79-139	0.020
Endosulfan I	0.0133	0.0127	95	58-131	0.020
Endosulfan II	0.0133	0.0128	96	62-137	0.020
Endosulfan Sulfate	0.0133	0.0136	102	79-141	0.020
Endrin	0.0133	0.0147	110	67-151	0.020
Endrin Aldehyde	0.0133	0.0135	101	68-132	0.020
Endrin Ketone	0.0133	0.0134	101	78-140	0.020
Heptachlor	0.0133	0.0145	109	82-135	0.020
Heptachlor Epoxide	0.0133	0.0142	106	81-137	0.020
Methoxychlor	0.0133	0.0136	102	76-142	0.050

Surrogates

<i>Tetrachloro-m-xylene</i>	97	63-125
<i>Decachlorobiphenyl</i>	91	58-128

*See Statement of Data Qualifications

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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QC Batch: 0801494 5035 Soil Purge & Trap - MS/USEPA-8260B

Method Blank

Unit: mg/kg wet

Analyzed: 02/11/2008 By: JDM

Analytical Batch: 8021211

Acetone	<1.0	1.0
Acrylonitrile	<0.10	0.10
Benzene	<0.050	0.050
Bromobenzene	<0.10	0.10
Bromochloromethane	<0.10	0.10
Bromodichloromethane	<0.10	0.10
Bromoform	<0.10	0.10
Bromomethane	<0.20	0.20
n-Butylbenzene	<0.050	0.050
sec-Butylbenzene	<0.050	0.050
tert-Butylbenzene	<0.050	0.050
Carbon Disulfide	<0.25	0.25
Carbon Tetrachloride	<0.050	0.050
Chlorobenzene	<0.050	0.050
Chloroethane	<0.25	0.25
Chloroform	<0.050	0.050
Chloromethane	<0.25	0.25
1,2-Dibromo-3-chloropropane	<0.050	0.050
Dibromochloromethane	<0.10	0.10
1,2-Dibromoethane	<0.050	0.050
Dibromomethane	<0.25	0.25
trans-1,4-Dichloro-2-butene	<0.050	0.050
1,2-Dichlorobenzene	<0.10	0.10
1,3-Dichlorobenzene	<0.10	0.10
1,4-Dichlorobenzene	<0.10	0.10
Dichlorodifluoromethane	<0.25	0.25
1,1-Dichloroethane	<0.050	0.050
1,2-Dichloroethane	<0.050	0.050
1,1-Dichloroethene	<0.050	0.050
cis-1,2-Dichloroethene	<0.050	0.050
trans-1,2-Dichloroethene	<0.050	0.050
1,2-Dichloropropane	<0.050	0.050
cis-1,3-Dichloropropene	<0.050	0.050
trans-1,3-Dichloropropene	<0.050	0.050
Ethylbenzene	<0.050	0.050
Ethyl Ether	<0.20	0.20

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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QC Batch: 0801494 (Continued) 5035 Soil Purge & Trap - MS/USEPA-8260B

Method Blank (Continued)

Unit: mg/kg wet

Analyzed: 02/11/2008 By: JDM

Analytical Batch: 8021211

2-Hexanone	<2.5	2.5
Iodomethane	<0.10	0.10
Isopropylbenzene	<0.25	0.25
4-Isopropyltoluene	<0.10	0.10
Methyl tert-Butyl Ether	<0.25	0.25
Methylene Chloride	<0.10	0.10
2-Butanone (MEK)	<0.75	0.75
2-Methylnaphthalene	<0.33	0.33
4-Methyl-2-pentanone (MIBK)	<2.5	2.5
Naphthalene	<0.33	0.33
n-Propylbenzene	<0.10	0.10
ne	<0.050	0.050
1,1,2-Tetrachloroethane	<0.10	0.10
1,2-Tetrachloroethane	<0.050	0.050
achloroethene	<0.050	0.050
Tetrahydrofuran	<1.0	1.0
Toluene	<0.10	0.10
1,2,3-Trichlorobenzene	<0.33	0.33
1,2,4-Trichlorobenzene	<0.33	0.33
1,1,1-Trichloroethane	<0.050	0.050
1,1,2-Trichloroethane	<0.050	0.050
Trichloroethene	<0.050	0.050
Trichlorofluoromethane	<0.10	0.10
1,2,3-Trichloropropane	<0.10	0.10
1,2,4-Trimethylbenzene	<0.10	0.10
1,3,5-Trimethylbenzene	<0.10	0.10
Vinyl Chloride	<0.040	0.040
Xylene, Meta + Para	<0.10	0.10
Xylene, Ortho	<0.050	0.050

Method Blank

Unit: ug/L

Analyzed: 02/11/2008 By: JDM

Analytical Batch: 8021211

Surrogates

Dibromofluoromethane	107	78-124
1,2-Dichloroethane-d4	104	80-123
Toluene-d8	100	84-113

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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QC Batch: 0801494 (Continued) 5035 Soil Purge & Trap - MS/USEPA-8260B

Method Blank (Continued)

Analyzed: 02/11/2008 By: JDM

Unit: ug/L

Analytical Batch: 8021211

Surrogates (Continued)

4-Bromofluorobenzene 105 79-120

Laboratory Control Sample

Analyzed: 02/11/2008 By: JDM

Unit: mg/kg wet

Analytical Batch: 8021211

Benzene	2.00	2.01	100	82-122	0.050
Chlorobenzene	2.00	2.08	104	82-118	0.050
1,1-Dichloroethene	2.00	1.69	84	72-131	0.050
Toluene	2.00	2.04	102	82-125	0.10
Trichloroethene	2.00	2.12	106	81-127	0.050

Laboratory Control Sample

Analyzed: 02/11/2008 By: JDM

Unit: ug/L

Analytical Batch: 8021211

Surrogates

Dibromofluoromethane	103	78-124
1,2-Dichloroethane-d4	106	80-123
Toluene-d8	104	84-113
4-Bromofluorobenzene	118	79-120

QUALITY CONTROL REPORT

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0801236 3550B Sonication Extraction/USEPA-8270C								
Method Blank				Analyzed:		02/12/2008	By: DMC	
Unit: mg/kg wet				Analytical Batch:		8021276		
Acenaphthene			<0.33					0.33
Acenaphthylene			<0.33					0.33
Anthracene			<0.33					0.33
Benzo(a)anthracene			<0.33					0.33
Benzo(a)pyrene			<0.33					0.33
Benzo(b)fluoranthene			<0.33					0.33
Benzo(g,h,i)perylene			<0.33					0.33
Benzo(k)fluoranthene			<0.33					0.33
4-Bromophenyl Phenyl Ether			<0.33					0.33
Butyl Benzyl Phthalate			<0.33					0.33
Carbazole			<0.33					0.33
4-Chloro-3-methylphenol			<0.28					0.28
1,2-Dichloroethoxy)methane			<0.33					0.33
1,2-Dichloroethyl) Ether			<0.10					0.10
1,2-Dichloroisopropyl) Ether			<0.33					0.33
Bis(2-ethylhexyl) Phthalate			<0.33					0.33
2-Chloronaphthalene			<0.33					0.33
2-Chlorophenol			<0.33					0.33
4-Chlorophenyl Phenyl Ether			<0.33					0.33
Chrysene			<0.33					0.33
Dibenz(a,h)anthracene			<0.33					0.33
Dibenzofuran			<0.33					0.33
Di-n-butyl Phthalate			<0.33					0.33
1,2-Dichlorobenzene			<0.33					0.33
1,3-Dichlorobenzene			<0.33					0.33
1,4-Dichlorobenzene			<0.33					0.33
2,4-Dichlorophenol			<0.33					0.33
Diethyl Phthalate			<0.33					0.33
2,4-Dimethylphenol			<0.33					0.33
Dimethyl Phthalate			<0.33					0.33
4,6-Dinitro-2-methylphenol			<0.83					0.83
2,4-Dinitrophenol			<0.83					0.83
2,4-Dinitrotoluene			<0.33					0.33
2,6-Dinitrotoluene			<0.33					0.33
Di-n-octyl Phthalate			<0.33					0.33
1,2-Diphenylhydrazine			<0.33					0.33

Continued on next page

QUALITY CONTROL REPORT

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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QC Batch: 0801236 (Continued) 3550B Sonication Extraction/USEPA-8270C

Method Blank (Continued)

Unit: mg/kg wet

Analyzed: 02/12/2008 By: DMC

Analytical Batch: 8021276

Fluoranthene		<0.33		0.33
Fluorene		<0.33		0.33
Hexachlorobenzene		<0.33		0.33
Hexachlorobutadiene		<0.050		0.050
Hexachlorocyclopentadiene		<0.33		0.33
Hexachloroethane		<0.30		0.30
Indeno(1,2,3-cd)pyrene		<0.33		0.33
Isophorone		<0.33		0.33
2-Methylnaphthalene		<0.33		0.33
2-Methylphenol		<0.33		0.33
3+4-Methylphenol		<0.33		0.33
Naphthalene		<0.33		0.33
4-Nitroaniline		<0.33		0.33
3-Nitroaniline		<0.83		0.83
2-Nitroaniline		<0.83		0.83
Nitrobenzene		<0.33		0.33
4-Nitrophenol		<0.83		0.83
2-Nitrophenol		<0.33		0.33
N-Nitroso-dimethylamine		<0.33		0.33
N-Nitroso-diphenylamine		<0.33		0.33
N-Nitroso-di-n-propylamine		<0.33		0.33
Pentachlorophenol		<0.020		0.020
Phenanthrene		<0.33		0.33
Phenol		<0.33		0.33
Pyrene		<0.33		0.33
1,2,4-Trichlorobenzene		<0.33		0.33
2,4,5-Trichlorophenol		<0.33		0.33
2,4,6-Trichlorophenol		<0.33		0.33

Surrogates

2-Fluorophenol	75	40-105
Phenol-d6	79	44-104
Nitrobenzene-d5	95	47-118
2-Fluorobiphenyl	88	48-119
2,4,6-Tribromophenol	83	36-120
o-Terphenyl	80	45-130

Laboratory Control Sample

Unit: mg/kg wet

Analyzed: 02/12/2008 By: DMC

Analytical Batch: 8021276

Acenaphthene	0.333	0.225	68	60-120	0.33
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Continued on next page

QUALITY CONTROL REPORT

Semivolatile Organic Compounds by EPA Method 8270C (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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QC Batch: 0801236 (Continued) 3550B Sonication Extraction/USEPA-8270C

Laboratory Control Sample (Continued)

Unit: mg/kg wet

Analyzed: 02/12/2008 By: DMC
 Analytical Batch: 8021276

4-Chloro-3-methylphenol	0.500	0.398	80	57-124	0.28
2-Chlorophenol	0.500	0.470	94	62-118	0.33
1,4-Dichlorobenzene	0.333	0.285	86	61-111	0.33
2,4-Dinitrotoluene	0.333	0.294	88	51-128	0.33
Naphthalene	0.333	0.300	90	52-128	0.33
4-Nitrophenol	0.500	0.386	77	36-131	0.83
N-Nitroso-di-n-propylamine	0.333	0.278	83	54-115	0.33
Pentachlorophenol	0.500	0.243	49	19-117	0.020
Phenol	0.500	0.403	81	53-120	0.33
Pyrene	0.333	0.280	84	60-132	0.33
1,2,4-Trichlorobenzene	0.333	0.296	89	57-122	0.33

ogates

2-Fluorophenol	79	40-105
nol-d6	81	44-104
Nitrobenzene-d5	95	47-118
2-Fluorobiphenyl	92	48-119
2,4,6-Tribromophenol	86	36-120
o-Terphenyl	88	45-130

QUALITY CONTROL REPORT

Total Metals by EPA 6000/7000 Series Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: Arsenic/USEPA-6020A

QC Batch: 0801356 (3050B Digestion)

Analyzed: 02/12/2008 By: KLV

Method Blank			<0.10	mg/kg dry wt.					0.10
Laboratory Control Sample		20.0	20.0	mg/kg dry wt.	100	82-116			0.10
0802068-01 PM - Fill - D									
Matrix Spike	1.98	20.0	20.7	mg/kg dry wt.	94	65-125			0.10
Matrix Spike Duplicate	1.98	20.0	21.1	mg/kg dry wt.	96	65-125	2	20	0.10

Analyte: Barium/USEPA-6020A

QC Batch: 0801356 (3050B Digestion)

Analyzed: 02/12/2008 By: KLV

Method Blank			<0.10	mg/kg dry wt.					0.10
Laboratory Control Sample		20.0	20.5	mg/kg dry wt.	102	86-118			0.10
0802068-01 PM - Fill - D									
Matrix Spike	35.6	20.0	56.9	mg/kg dry wt.	107	64-134			0.20
Matrix Spike Duplicate	35.6	20.0	60.4	mg/kg dry wt.	124	64-134	6	20	0.20

Analyte: Cadmium/USEPA-6020A

QC Batch: 0801356 (3050B Digestion)

Analyzed: 02/12/2008 By: KLV

Method Blank			<0.050	mg/kg dry wt.					0.050
Laboratory Control Sample		20.0	19.2	mg/kg dry wt.	96	83-113			0.050
0802068-01 PM - Fill - D									
Matrix Spike	0.0670	20.0	19.8	mg/kg dry wt.	99	84-119			0.050
Matrix Spike Duplicate	0.0670	20.0	20.1	mg/kg dry wt.	100	84-119	2	20	0.050

Analyte: Chromium/USEPA-6020A

QC Batch: 0801356 (3050B Digestion)

Analyzed: 02/12/2008 By: KLV

Method Blank			<0.10	mg/kg dry wt.					0.10
Laboratory Control Sample		20.0	20.0	mg/kg dry wt.	100	87-118			0.10
0802068-01 PM - Fill - D									
Matrix Spike	6.64	20.0	25.3	mg/kg dry wt.	93	63-134			0.10
Matrix Spike Duplicate	6.64	20.0	26.8	mg/kg dry wt.	101	63-134	6	20	0.10

Analyte: Lead/USEPA-6020A

QC Batch: 0801356 (3050B Digestion)

Analyzed: 02/12/2008 By: KLV

Method Blank			<0.10	mg/kg dry wt.					0.10
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Continued on next page

QUALITY CONTROL REPORT

Total Metals by EPA 6000/7000 Series Methods (Continued)

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: **Lead/USEPA-6020A (Continued)**

QC Batch: 0801356 (Continued) (3050B Digestion) Analyzed: 02/12/2008 By: KLV

Laboratory Control Sample		20.0	20.7	mg/kg dry wt.	104	82-118			0.10
0802068-01 PM - Fill - D									
Matrix Spike	6.63	20.0	27.2	mg/kg dry wt.	103	69-129			0.10
Matrix Spike Duplicate	6.63	20.0	27.7	mg/kg dry wt.	106	69-129	2	20	0.10

Analyte: **Mercury/USEPA-7471A**

QC Batch: 0801411 (7471A Mercury Digestion) Analyzed: 02/12/2008 By: DSC

Method Blank			<0.050	mg/kg dry wt.					0.050
Laboratory Control Sample		0.333	0.327	mg/kg dry wt.	98	76-122			0.050
0802068-01 PM - Fill - D									
Matrix Spike	0.0148	0.333	0.352	mg/kg dry wt.	101	71-123			0.050
Matrix Spike Duplicate	0.0148	0.333	0.352	mg/kg dry wt.	101	71-123	0.1	20	0.050

Analyte: **Selenium/USEPA-6020A**

QC Batch: 0801356 (3050B Digestion) Analyzed: 02/12/2008 By: KLV

Method Blank			<0.10	mg/kg dry wt.					0.10
Laboratory Control Sample		20.0	19.5	mg/kg dry wt.	97	73-117			0.10
0802068-01 PM - Fill - D									
Matrix Spike	<0.10	20.0	18.0	mg/kg dry wt.	90	58-123			0.10
Matrix Spike Duplicate	<0.10	20.0	17.6	mg/kg dry wt.	88	58-123	2	20	0.10

Analyte: **Silver/USEPA-6020A**

QC Batch: 0801356 (3050B Digestion) Analyzed: 02/12/2008 By: KLV

Method Blank			<0.10	mg/kg dry wt.					0.10
Laboratory Control Sample		20.0	19.4	mg/kg dry wt.	97	90-112			0.10
0802068-01 PM - Fill - D									
Matrix Spike	0.0295	20.0	19.1	mg/kg dry wt.	95	76-119			0.10
Matrix Spike Duplicate	0.0295	20.0	19.1	mg/kg dry wt.	95	76-119	0.2	20	0.10

QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
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Analyte: **Percent Solids/USEPA-3550B**

QC Batch: 0801361 (General Inorganic Prep) Analyzed: 02/08/2008 By: KNC

Method Blank		<0.1	%			0.1
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0802068-01 PM - Fill - D

Duplicate	88	89	%		0.07	20	0.1
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Analyte: **SGT-HEM; Nonpolar Material/USEPA-9071B**

QC Batch: 0801453 (Method-Specific Preparation) Analyzed: 02/11/2008 By: CLB

Method Blank		<400	mg/kg wet			400
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Laboratory Control Sample	2000	1820	mg/kg wet	91	64-132	400
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0802068-01 PM - Fill - D

Duplicate	<450	<450	mg/kg dry		24	450
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STATEMENT OF DATA QUALIFICATIONS**Organochlorine Pesticides by EPA Method 8081A**

Qualification: The LCS recovery was less than the lower control limit but greater than or equal to 10%. A positive result for this analyte in the associated QC batch is considered estimated; a non-detect result for the same analyte is considered as approximate.

Analysis: USEPA-8081A

0801259-BS4	4,4'-DDE
0801259-BS4	4,4'-DDT
0801259-BS4	Aldrin
0801259-BS4	alpha-BHC
0801259-BS4	alpha-Chlordane
0801259-BS4	beta-BHC
0801259-BS4	delta-BHC
0801259-BS4	Dieldrin
0801259-BS4	Endrin Ketone
0801259-BS4	gamma-BHC (Lindane)
0801259-BS4	gamma-Chlordane
0801259-BS4	Heptachlor
0801259-BS4	Heptachlor Epoxide
0801259-BS4	Methoxychlor

Qualification: This sample was re-extracted due to low recoveries in the associated Blank Spike. The re-extraction was performed within the holding time. Both sets of results are reported.

Analysis: USEPA-8081A

Sample/Analyte: 0802068-01 PM - Fill - D



TriMatrix
Laboratories, Inc.

5500 Corporate Exchange Court SE Grand Rapids, MI 49512

Phone (616) 975-4500 Fax (616) 942-7463

www.trimatrixlabs.com

Chain of Custody Record

COC No.

102967

For Lab Use Only

Corr. Vol. Soil

VOA Rock/Troy

Receipt Log No. 4714

Project Chemist

Laboratory Project No. 0802068

Client Name: RMT, Inc

Address: 2025 E. Beltline Ave SE

City: Grand Rapids, MI 49546

Phone: 616-975-5415

Fax: 616-975-1098

Project Name: Plainwell Mill

Client Project No. / P.O. No. 5130.04

Invoice To: ☒ Client

☐ Other (comments)

Contact/Report To: J. Overvorse

Analyses Requested

VOC
SVOCs, PCB, TPH
PCRA Metals
Pesticides

Page ___ of ___

PRESERVATIVES

- A NONE pH=7
- B HNO₃ pH<2
- C H₂SO₄ pH<2
- D 1+1 HCl pH<2
- E NaOH pH>12
- F ZnAc/NaOH pH>9
- G MeOH
- H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	C O M P	G R A B	Matrix	Number of Containers Submitted										Total	Sample Comments
01		01	PM-Fill-D		2/5/08	18:29	X	S		X	X	X	X							3	

Sampled By (print): E. Vincke	How Shipped? <input checked="" type="radio"/> Hand <input type="radio"/> Carrier	Comments:	
Sampler's Signature: E. Vincke	Tracking No.:		
Company: RMT Inc	1. Relinquished By: E. Vincke Date: 2/6/08 Time: 1400	2. Received By:	3. Relinquished By:
	1. Received By:	2. Received By:	3. Received For Lab By:

TriMatrixCOC - COC

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YELLOW COPY - LABORATORY

PINK COPY - FIELD